HCD-V919AV

SERVICE MANUAL

E Model
Chinese Model

HCD-V919AV is the Amplifier, Video CD player, Tape Deck and Tuner section in MHC-V919AV.

This stereo system is equipped with the Dolby B-type noise reduction system and Dolby Pro Logic Surround decoder*.
* Manufactured under license from Dolby Laboratories Licensing Corporation.
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CD Section	Model Name Using Similar Mechanism	HCD-V717
	CD Mechanism Type	CDM38L-5BD24AL
	Base Unit Name	BU-5BD24AL
	Optical Pick-up Name	KSS-213D/Q-NP
Tape Deck Section	Model Name Using Similar Mechanism	HCD-V717
	Tape Transport Mechanism Type	TCM-230AWR1/ 230PWR1

SPECIFICATIONS

Amplifier section

The following measured at AC 120, 220, 240 V 50/60Hz

Front Speaker:
DIN power output (rated) 105 + 105 watts (6 ohms at 1 kHz, DIN)
Continuous RMS power output (reference) 130 + 130 watts (6 ohms at 1 kHz, 10% THD)

Center Surround Speaker:
DIN power output (rated) 20 watts (8 ohms at 1 kHz, DIN)
Continuous RMS power output (reference) 25 watts (8 ohms at 1 kHz, 10% THD)

Rear Surround Speaker:
DIN power output (rated) 10 + 10 watts (16 ohms at 1 kHz, DIN)
Continuous RMS power output (reference) 12.5 + 12.5 watts (16 ohms at 1 kHz, 10% THD)
Peak music power output (reference) 2000 watts

Inputs
VIDEO (AUDIO) IN (phono jacks): voltage 250 mV, impedance 47 kilohms
MD IN (phono jacks): voltage 450 mV, impedance 47 kilohms
MIC 1/2 (phone jack): sensitivity 1 mV, impedance 10 kilohms

Outputs
MD OUT (phono jacks): voltage 250 mV impedance 1 kilohms
VIDEO OUT (phono jack): max. output level 1Vp-p, unbalanced, Sync negative, load impedance 75 ohms
S-VIDEO OUT (4-pin/mini-DIN jack): Y: 1Vp-p, unbalanced, Sync negative, C: 0.286Vp-p, load impedance 75 ohms
PHONES (stereo phone jack): accepts headphones of 8 ohms or more
FRONT SPEAKER: accepts impedance of 8 to 16 ohms
REAR SURROUND SPEAKER: accepts impedance of 16 ohms
CENTER SURROUND SPEAKER: accepts impedance of 8 ohms
SUPER WOOFER: Voltage 1 V, impedance 1 kilohm

VIDEO CD/CD player section

System	Compact disc and digital audio and video system
Laser	Semiconductor laser (λ=780nm) Emission duration: continuous
Laser output	Max. 44.6 μW* *This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Wavelength	780 – 790 nm
Frequency response	2 Hz – 20 kHz (±0.5 dB)
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB
Video color system format	NTSC, PAL

CD OPTICAL DIGITAL OUT
(Square optical connector jack, rear panel)
Wavelength 600 nm
Output Level –18 dBm

– Continued on next page –

MINI Hi-Fi COMPONENT SYSTEM

MICROFILM

SONY®

Tape player section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF)	40 – 13,000 Hz (±3 dB), using Sony TYPE I cassette 40 – 14,000 Hz (±3 dB), using Sony TYPE II cassette

Tuner section

FM stereo, FM / AM superheterodyne tuner

FM tuner section

Tuning range	
2 band models:	87.5 – 108.0 MHz
3 band (FM–MW–SW) models:	87.5 – 108.0 MHz
Antenna	FM lead antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
2 Band type:	531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)
3 Band type:	
MW:	531 – 1,602 kHz (with the interval set at 9 kHz) 530 – 1,710 kHz (with the interval set at 10 kHz)
SW:	5.95 – 17.90 MHz (with the interval set at 5 kHz)
Antenna	AM loop antenna
Antenna terminals	External antenna terminal
Intermediate frequency	450 kHz

General

Power requirements	
Thai and Chinese models:	220 V AC, 50/60 Hz
Other models:	120 V, 220 V or 230 - 240 V AC, 50/60 Hz Adjustable with voltage selector
Power consumption:	300 watts
Dimensions (w/h/d)	Approx. 280 x 365 x 405 mm
Mass:	Approx. 12.1 kg

Design and specifications are subject to change without notice.

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SECTION 1
SERVICING NOTES

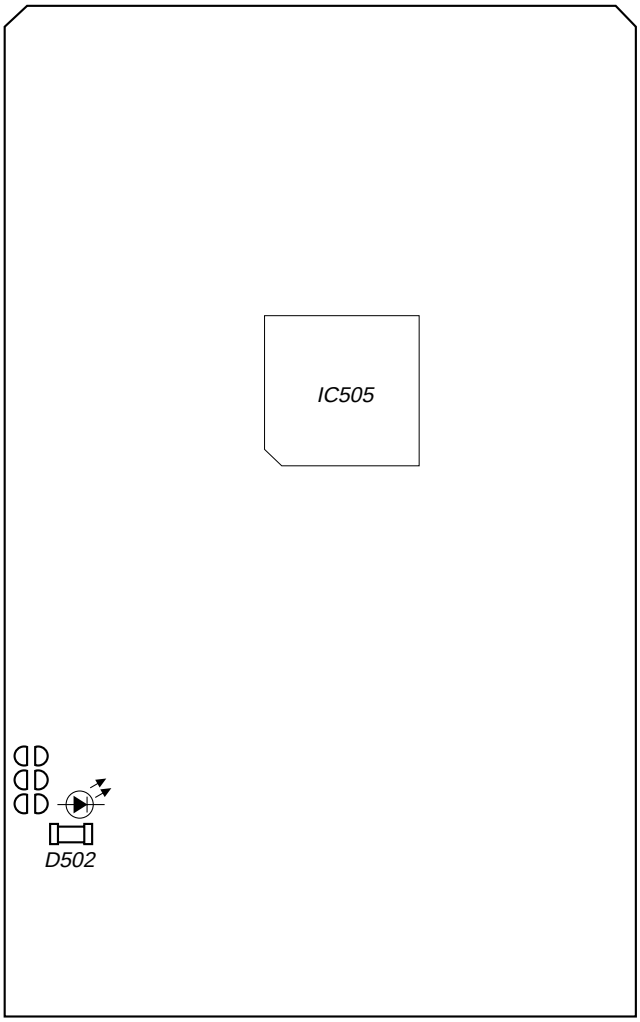
SELF-DIAGNOSIS

This unit is equipped with a self-diagnosis function.
The function is used for diagnosing the conditions of the circuits of the VIDEO board.
The circuits can be determined if normal or abnormal by the lighting of D502 of the VIDEO board.

Lighting of D502

When lit : Operates normally
Blinks repeatedly: The circuit may be faulty.

[VIDEO Board] (Side A)



NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of the soldering iron around 270 ˚C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

The following caution label is located inside the unit.

SAFETY-RELATED COMPONENT WARNING!!

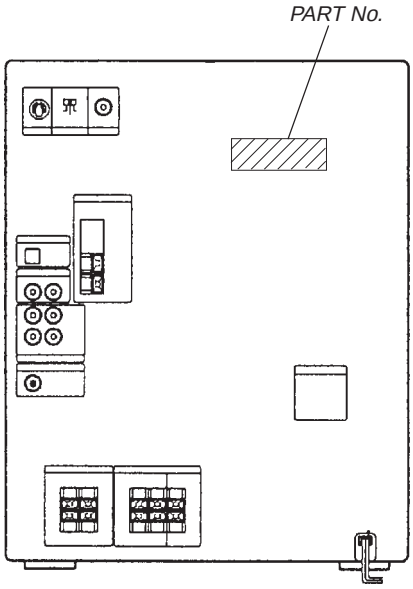
COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

与安全有关的零部件须知

在原理图上用阴影及⚠标记来识别的零部件在安全操作上是具有关键性的。这些零部件要用本手册中所示的部件号对应的索尼零部件进行更换。

在安全操作上具有关键性的电路调整与索尼公司出版的维修手册完全一致。在更换关键零部件时或怀疑动作失常时，请进行这些调整操作。

MODEL IDENTIFICATION
– Back Panel –



MODEL	PART No.
Malaysia and Singapore models	4-900-722-0☐
Chinese model	4-900-722-1☐
Indonesia model	4-900-722-2☐
Thai model	4-900-722-3☐

IC502 OF VIDEO BOARD

IC502 of the VIDEO board consists of the former type and new type. The following table shows the differences between the two types.
Only spare parts for the new type IC502 are supplied.
Units using the former IC502 will not function when replaced with the new type without performing the following procedure.
Consequently, replace IC502 of units using the former type according to the following procedure.

Table of Differences

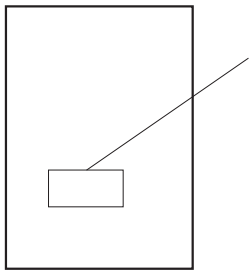
	FORMER TYPE	NEW TYPE
C407, 408	MOUNT	NO MOUNT
IC502	M30620MC-302FP	M30620MC-305FP
JW421, JW422	NO MOUNT	MOUNT
IC402	MOUNT	NO MOUNT
R413, 421, 422	MOUNT	NO MOUNT
X401	MOUNT	NO MOUNT

Replacing Procedure

1. Remove IC402.
2. Solder JW421 and JW422, or short-circuit with a lead wire, etc.
3. Replace IC502 with a new one.

How to Differentiate

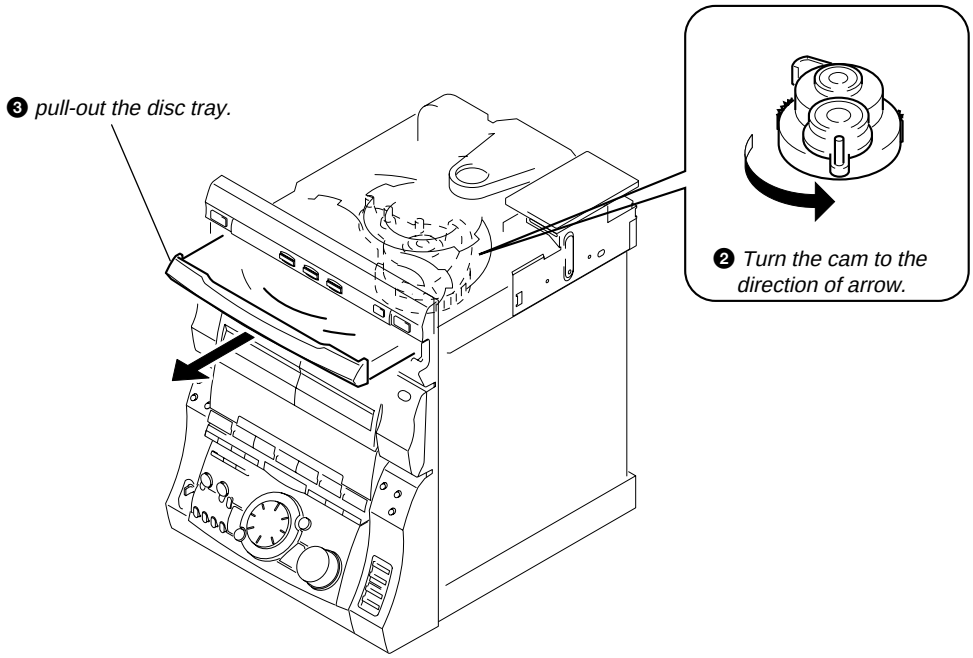
[VIDEO board] (Side A)



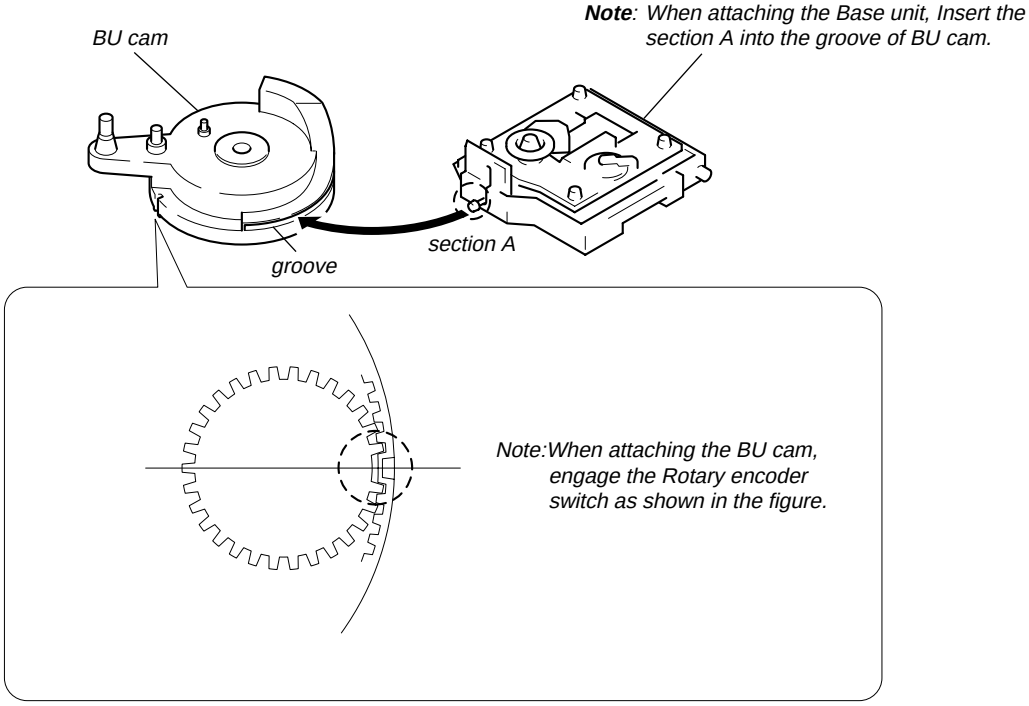
Those with IC402 : FORMER TYPE
Those without IC402: NEW TYPE

HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS OFF

❶ *Remove the case.*



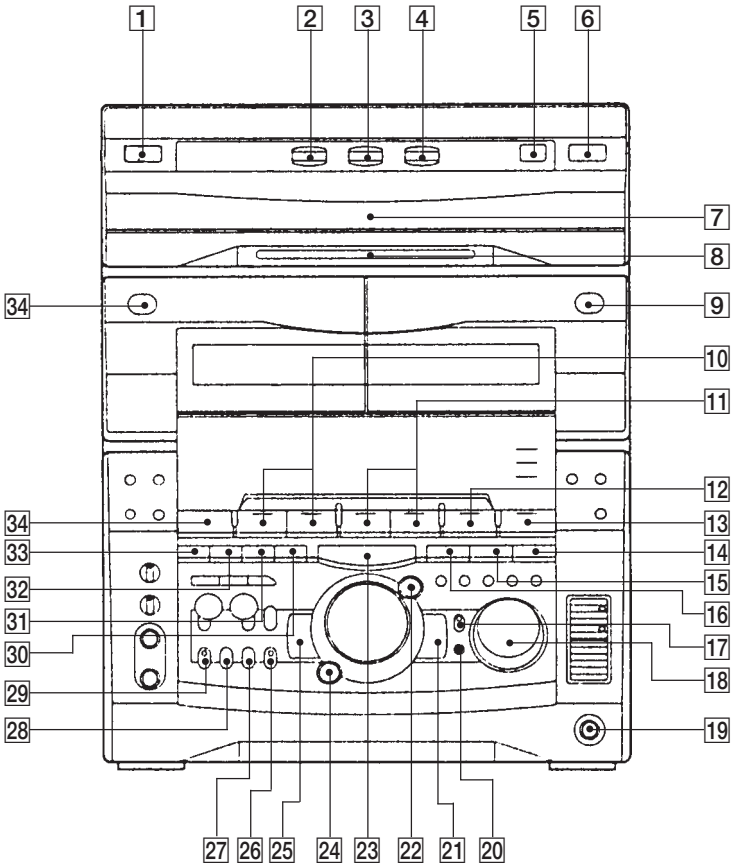
NOTE FOR INSTALLATION (ROTARY ENCODER)


BU cam
Note: When attaching the Base unit, Insert the section A into the groove of BU cam.
section A
groove
Note:When attaching the BU cam, engage the Rotary encoder switch as shown in the figure.

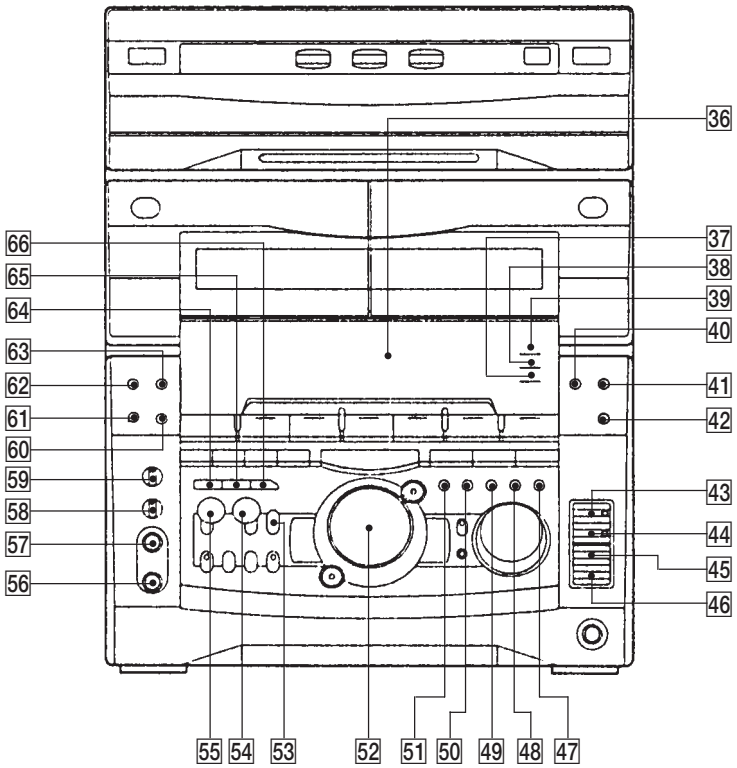
SECTION 2
GENERAL

LOCATION OF CONTROLS

• Front view

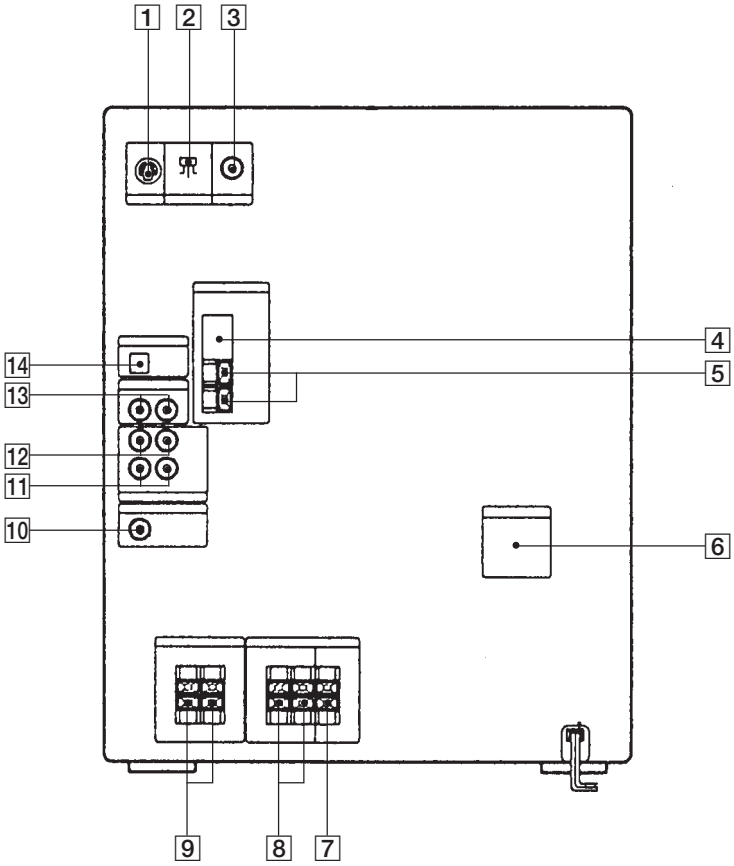


1 I/⏻ (POWER) button
2 DISC 1 button and indicator
3 DISC 2 button and indicator
4 DISC 3 button and indicator
5 DISC SKIP/EX-CHANGE button
6 ⏏ button
7 Disc tray
8 Decoration
9 ⏏ button (Deck B)
10 Deck A ◄, ► buttons and indicators
11 Deck B ◄, ► buttons and indicators
12 CD ►II button and indicator
13 TUNER, BAND button
14 PRO LOGIC button and indicator
15 DSP button and indicator
16 KARAOKE PON/MPX button
17 GROOVE button and indicator
18 VOLUME knob
19 PHONES jack
20 DBFB button
21 –, ◄◄ button and indicator
22 ENTER/NEXT button and indicator
23 ■ button
24 AUTO BPM button and indicator
25 +, ►► button and indicator
26 BEAT, JAM button and indicator
27 BEAT, SPEED button
28 BEAT, SELECT button
29 BEAT, ON/OFF button and indicator
30 P FILE MEMORY button
31 GEQ CONTROL button
32 FILE SELECT button
33 EFFECT button and indicator
34 FUNCTION button
35 ⏏ button (Deck A)



36 Display window
37 PBC OFF indicator
38 PBC indicator
39 VIDEO CD indicator
40 PLAY MODE, DOLBY NR, TUNER MEMORY button
41 EDIT, DIRECTION button
42 REPEAT, STEREO/MONO button
43 ● REC button and indicator
44 ❚❚ PAUSE button and indicator
45 HI-DUB button
46 CD SYNC button
47 NEXT button
48 PREV button
49 RETURN button
50 SELECT button
51 ACTIVE button
52 JOG dial
53 BEAT LEVEL button
54 PAD B button
55 PAD A button
56 MIC 2 jack
57 MIC 1 jack
58 MIC LEVEL knob
59 ECHO LEVEL knob
60 DEMO button
61 DISPLAY button
62 CLOCK/TIMER SET button
63 TIMER/SELECT button
64 CD LOOP button
65 CD FLASH button
66 CD NON-STOP button and indicator

• **Rear view**

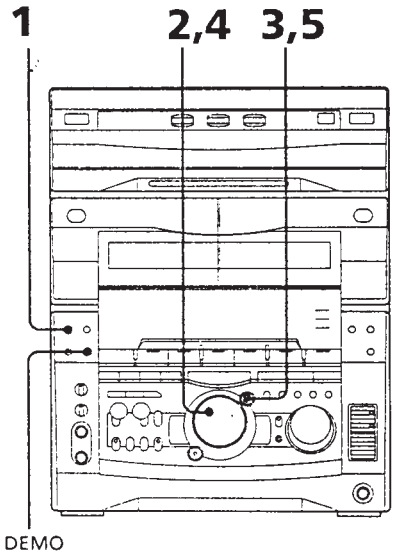


1 S VIDEO OUT jack
2 SYSTEM SELECT switch
3 VIDEO OUT jack
4 FM antenna terminal
5 AM antenna terminals
6 VOLTAGE SELECTOR switch
7 SURROUND SPEAKER, CENTER terminals
8 SURROUND SPEAKER, REAR terminals
9 FRONT SPEAKER terminals
10 SUPER WOOFER jack
11 MD OUT jacks
12 MD IN jacks
13 VIDEO (AUDIO) IN jacks
14 CD DIGITAL OUT, OPTICAL connector

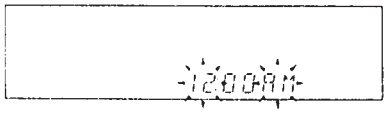
This section is extracted from instruction manual.

Step 3: Setting the time

You must set the time before using the timer functions.

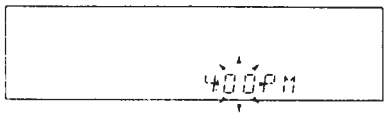


1 Press CLOCK/TIMER SET.
The hour indication flashes.



2 Turn the jog dial to set the hour.

3 Press ENTER/NEXT.
The minute indication flashes.



4 Turn the jog dial to set the minute.

5 Press ENTER/NEXT.
The clock starts working.

Tips

- If you've made a mistake, start over from step 1.
- Setting the time deactivates the demo mode. If you want to display the demo mode, press DEMO when the power is off.

Note

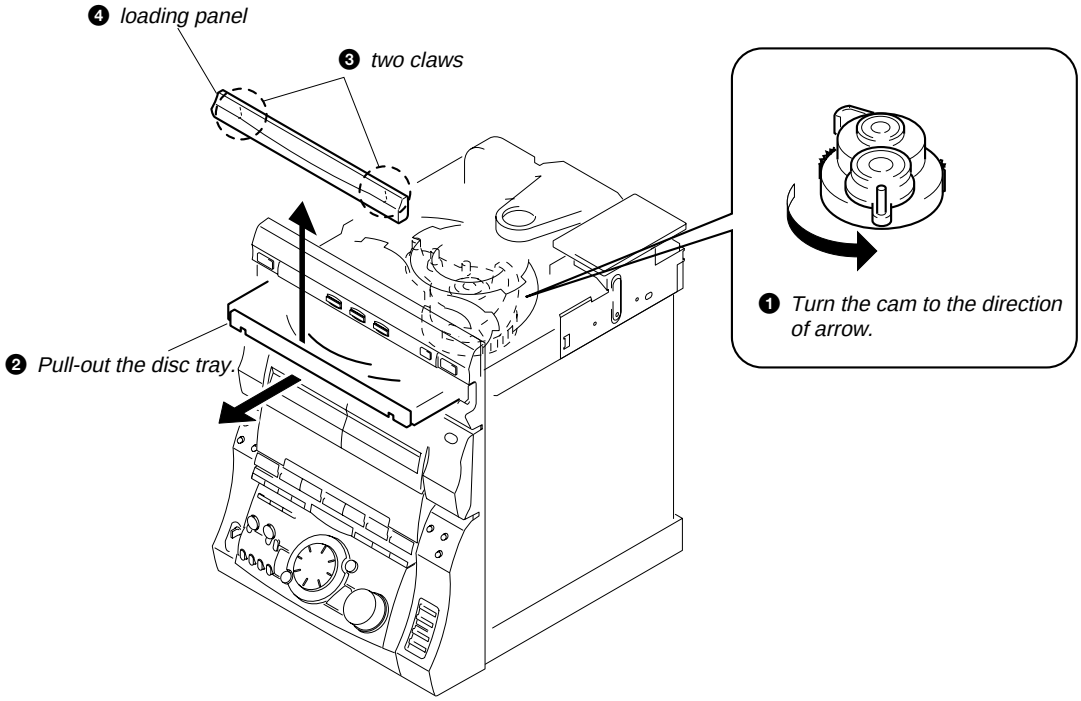
The previous explanation shows you how to set the time while the power is off. To change the time while the power is on, do the following:

1 Press CLOCK/TIMER SET.
2 Turn the jog dial to select "SET CLOCK".
3 Press ENTER/NEXT.
4 Perform steps 2 through 5 above.

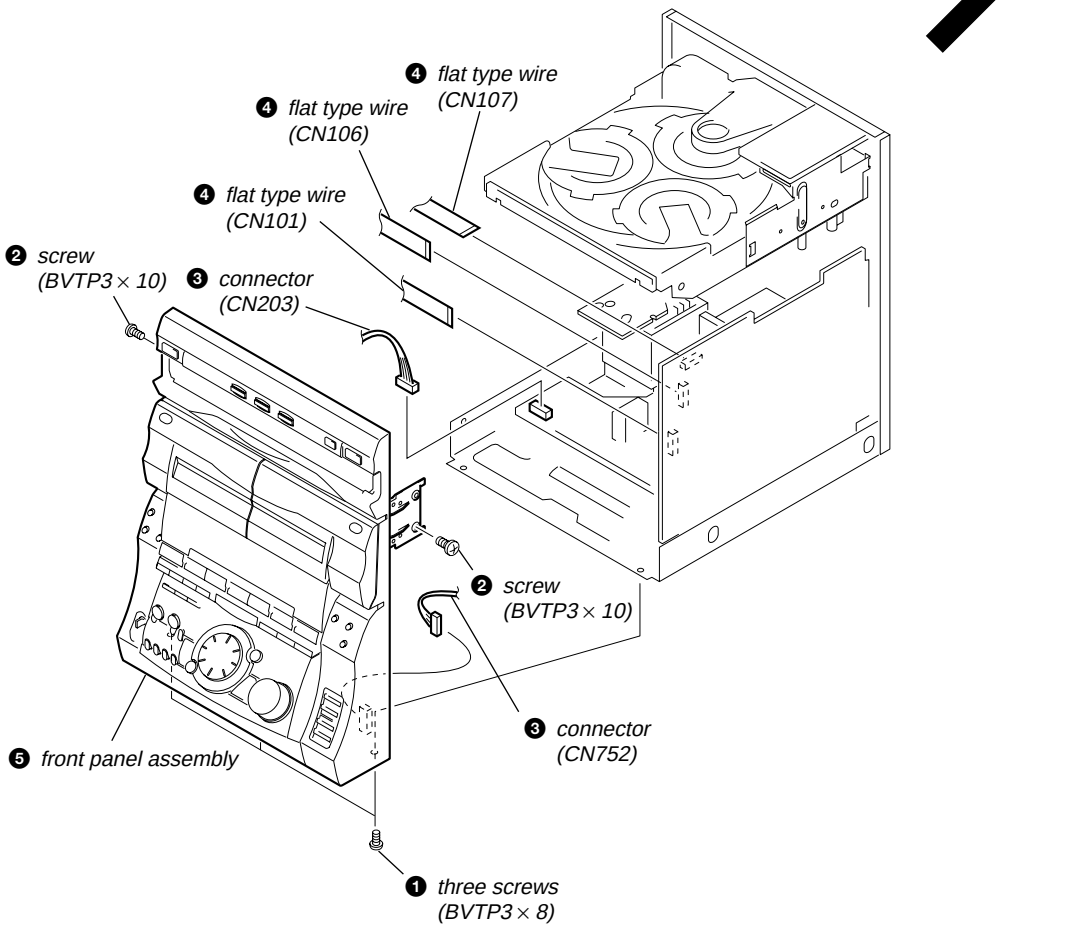
SECTION 3
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

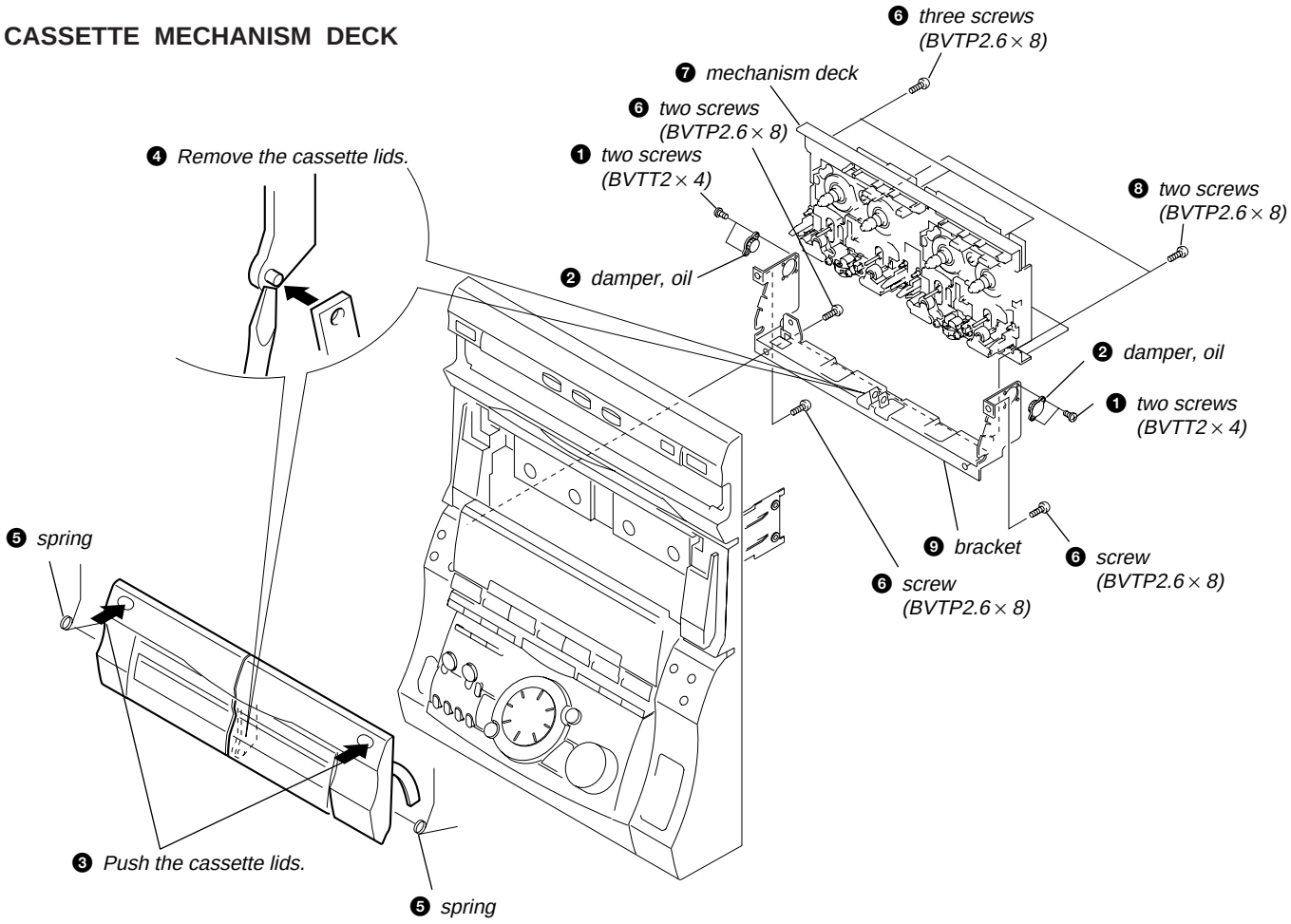
LOADING PANEL



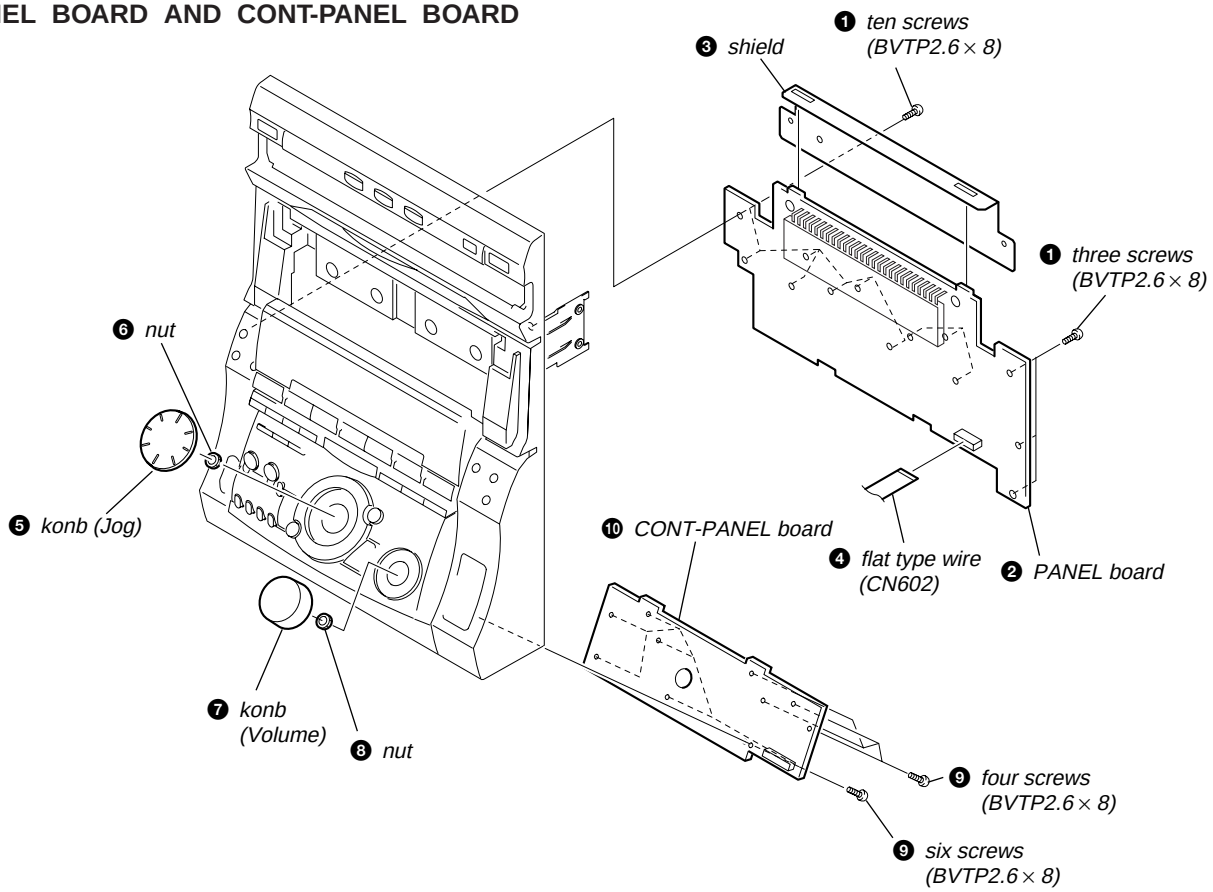
FRONT PANEL


❹ flat type wire (CN107)
❹ flat type wire (CN106)
❹ flat type wire (CN101)
❷ screw (BVTP3 × 10)
❸ connector (CN203)
❷ screw (BVTP3 × 10)
❸ connector (CN752)
❺ front panel assembly
❶ three screws (BVTP3 × 8)

CASSETTE MECHANISM DECK

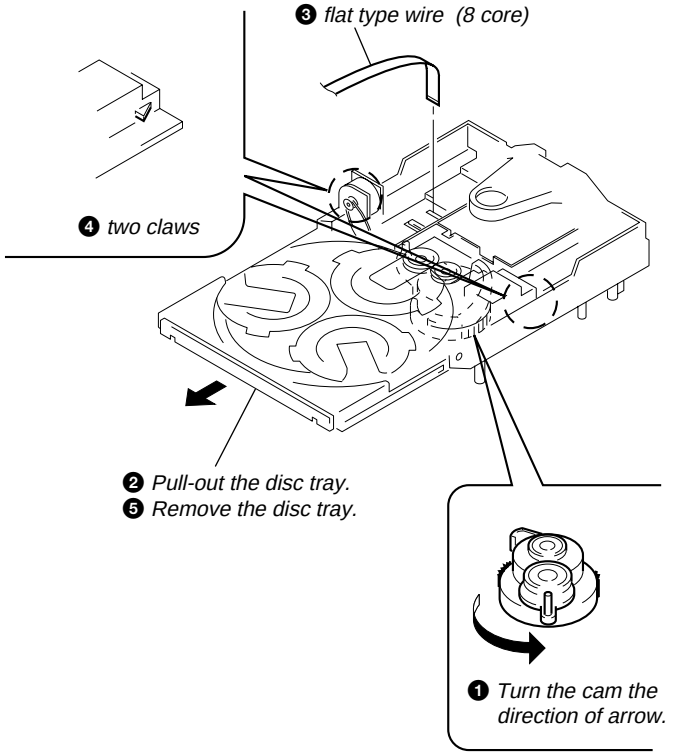

❻ three screws (BVTP2.6 × 8)
❼ mechanism deck
❻ two screws (BVTP2.6 × 8)
❶ two screws (BVTT2 × 4)
❹ Remove the cassette lids.
❽ two screws (BVTP2.6 × 8)
❷ damper, oil
❷ damper, oil
❶ two screws (BVTT2 × 4)
❺ spring
❾ bracket
❻ screw (BVTP2.6 × 8)
❻ screw (BVTP2.6 × 8)
❸ Push the cassette lids.
❺ spring

PANEL BOARD AND CONT-PANEL BOARD

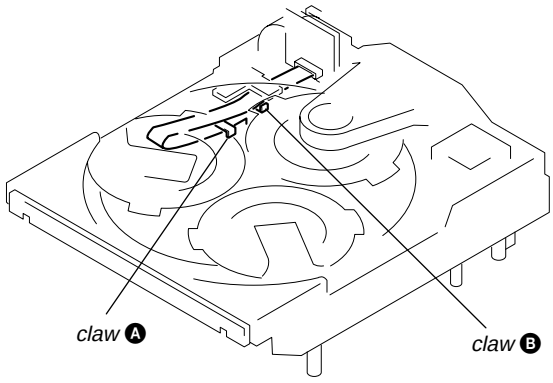


DISC TRAY

(Perform after removing the front panel.)



Note: *When installing the Disc tray, pull around the flat type wire to pass through the claw Ⓐ and claw Ⓑ, as shown in the figure.*



SECTION 4
TEST MODE

[MC Cold Reset]

• The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press three buttons [■], [ENTER/NEXT], and [I/⏻] simultaneously.
2. The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

[CD Delivery Mode]

• This mode moves the pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Press [CD LOOP] button and [I/⏻] button simultaneously.
3. A message "LOCK" is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

[MC Hot Reset]

• This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

1. Press three buttons [■], [ENTER/NEXT], and [DISC 1] simultaneously.
2. The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

[Sled Servo Mode]

• This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pick-up.

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Select the function "CD".
3. Press three buttons [■], [ENTER/NEXT], and [⏏] simultaneously.
4. The Sled Servo mode is selected, if "CD" is blanking on the fluorescent indicator tube.
5. With the CD in stop status, press [▶▶ +] button to move the pick-up to outside track, or [– ◀◀] button to inside track.
6. To exit from this mode, perform as follows:
   1) Move the pick-up to the most inside track.
   2) Press three buttons in the same manner as step 3.

Note: • Always move the pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
• Do not run the sled motor excessively, otherwise the gear can be chipped.

[Change-over of MW Tuner Step between 9 kHz and 10 kHz]

• A step of MW channels can be changed over between 9 kHz and 10 kHz.

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Select the function "TUNER", and press [TUNER BAND] button to select the BAND "MW".
3. Press [I/⏻] button to turn the set OFF.
4. Press [ENTER/NEXT] and [I/⏻] buttons simultaneously, and the display of fluorescent indicator tube changes to "MW 9 k STEP" or "MW 10 k STEP", and thus the channel step is changed over.

[LED and Fluorescent Indicator Tube All Lit, Key Check Mode]

Procedure:

1. Press three buttons [■], [ENTER/NEXT], and [DISC 2] simultaneously.
2. LEDs and fluorescent indicator tube are all turned on.
   Press [DISC 2] button, and the key check mode is activated.
3. In the key check mode, the fluorescent indicator tube displays "K 1 J0 V0". Each time a button is pressed, "K" value increases. However, once a button is pressed, it is no longer taken into account.
   "J" value increases like 1, 2, 3 ... if rotating [JOG] dial in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "–" direction.
   "V" value increases like 1, 2, 3 ... if rotating [VOLUME] knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "–" direction.
4. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

[Aging Mode]

This mode can be used for checking the operations of the CD player and tape deck.

- When problems occur:
  Aging stops. If currently aging the tape deck, the state when aging stops will be displayed on the fluorescent display tube.
- When no problems:
  Aging continues.

Preparations:

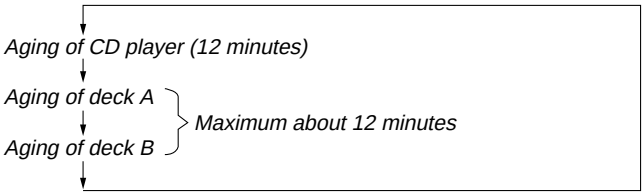
- Set the CD on the DISC 1 tray.
- Insert a commercially available tape for recording (tapes which contents can be erased, etc.) in decks A and B.

Setting the aging mode:

Press the ■ button, ENTER/NEXT button, and DISC SKIP/EX-CHANGE button together. When the aging mode is set, the CD roulette work blinks. To exit the mode, press the I/⏻ button and turn OFF the power.

Sequence:

The aging mode is executed in the following sequence.
If the function is set to "CD" when the aging mode is set, aging is performed starting from the CD player. When set to "TAPE A" or "TAPE B" aging is started from deck A.
If the function is to others aging will not be stated until the function is switched to CD or TAPE.



Display of status:

- The aging status is displayed on the fluorescent display tube. (Only when executing the tape deck section.)
- During the aging of the tape deck, the operations performed will be displayed. If operations ended abnormally, this will be displayed at the fluorescent indicator tube.

Tape Deck

Display of Operations	Operation	Timing of Ending
TAPE A AG-1	TAPE A REW	Shutoff
TAPE A AG-2	TAPE A FWD	2 minute playback
TAPE A AG-3	TAPE A FF	20 seconds or shutoff
TAPE A AG-4	TAPE A REV	2 minutes playback
TAPE A AG-5	TAPE A REW	Shutoff
TAPE B AG-1	TAPE B REW	Shutoff
TAPE B AG-2	TAPE B FWD	2 minute playback
TAPE B AG-3	TAPE B FF	20 seconds or shutoff
TAPE B AG-4	TAPE B REV	2 minute playback
TAPE B AG-5	TAPE B REW	Shutoff

Operations during aging

- Operations are performed in the following sequence during aging.

<CD player>

1. The CD tray rotates and disc 1 is selected.
2. Chucking is performed.
3. TOC is read.
4. Track 1 played back for 8 seconds.
5. The CD tray opens and closes again.
6. 1 to 5 is repeated.
7. After 12 minutes of aging, aging is switched to the tape deck.

<Tape Deck>

1. The tape in deck A is rewound to the head.
2. The FWD side is played back for 2 minutes.
3. The tape is fast forwarded (FF) for 20 seconds. The following procedure is performed when the tape end is reached before the 20 seconds.
4. The REV side is played back for 2 minutes.
5. The tape is rewound to the head (REW).
6. The tape in deck B is rewound to the head.
7. The FWD side is played back for 2 minutes.
8. The tape is fast forwarded (FF) for 20 seconds. The following procedure is performed when the tape end is reached before the 20 seconds.
9. The REV side is played back for 2 minutes.
10. The tape is rewound to the head (REW).
11. Aging is switched to the CD player.

[VIDEO CD Color-bars Mode]

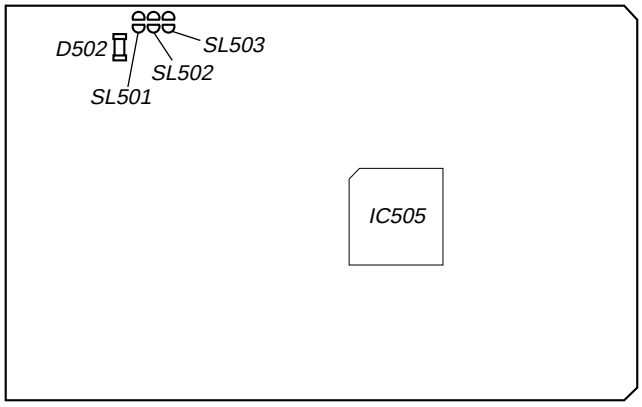
On this mode, the data of the color-bars signal as a picture signal and the 1 kHz sine wave signal as a sound signal are output by the mechanism controller (IC502) for the video CD signal check. When measurement of the voltage and waveform on the VIDEO board, perform it in this mode.

For reference, the color-bars signal can be observed at J302 (VIDEO OUT) and the sound signal can be observed at J101 (VIDEO/MD (AUDIO) OUT) using an oscilloscope.

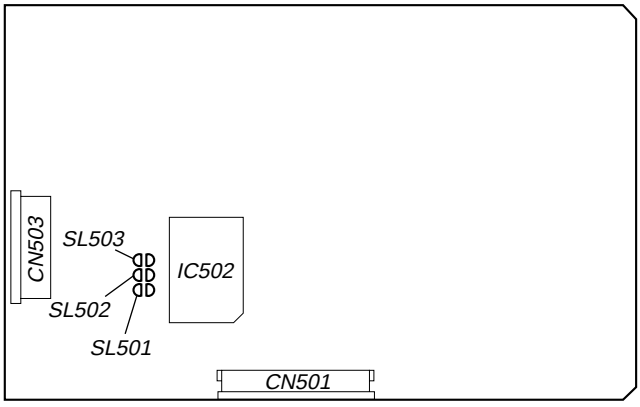
Procedure:

1. Connect the lead wire to both ends of the land of SL503 of the VIDEO board.
2. Turn the power on. Press FUNCTION button to select CD.
3. After 2 or 3 seconds later, connect the lead wire.
4. After measuring, remove the lead wire connected.

[VIDEO board] (Side A)



[VIDEO board] (Side B)



SECTION 5
MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:
   - record/playback heads
   - erase head
   - capstan
   - pinch rollers
   - rubber belts
   - idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torqu Meter	Meter Reading
FWD	CQ-102C	31 to 71 g•cm (0.43 – 0.98 oz•inch)
FWD Back Tension	CQ-102C	2 to 6 g•cm (0.02 – 0.08 oz•inch)
REV	CQ-102RC	31 to 71 g•cm (0.43 – 0.98 oz•inch)
REV Back Tension	CQ-102RC	2 to 6 g•cm (0.02 – 0.08 oz•inch)
FF/REW	CQ-201B	71 to 143 g•cm (0.98 – 1.99 oz•inch)
FWD tension	CQ-403A	100 g or more (3.53 oz or more)
REV tension	CQ-403R	100 g or more (3.53 oz or more)

SECTION 6
ELECTRICAL ADJUSTMENTS

DECK SECTION 0 dB=0.775 V

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjust.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

• Test Tape

Tape	Signal	Used for
P-4-A100	10 kHz, –10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

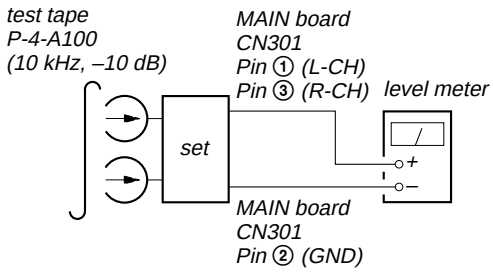
Record/Playback Head Azimuth Adjustment

DECK A **DECK B**

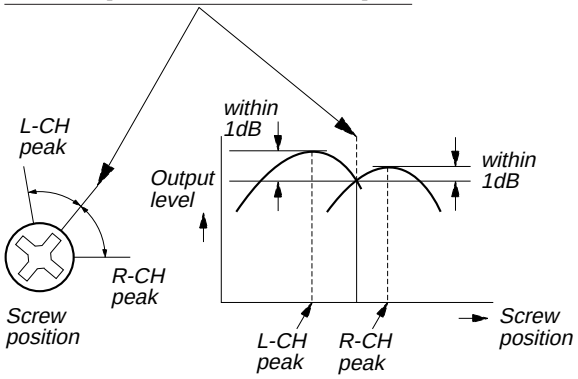
Note: Perform this adjustments for both decks

Procedure:

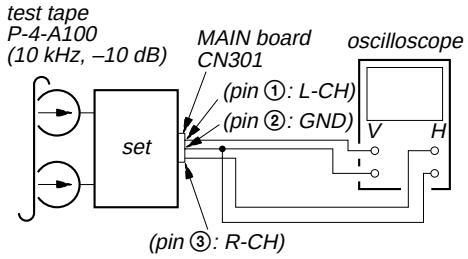
1. Mode: Playback (FWD)

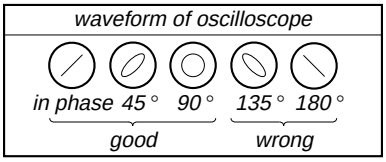


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1dB of peak.



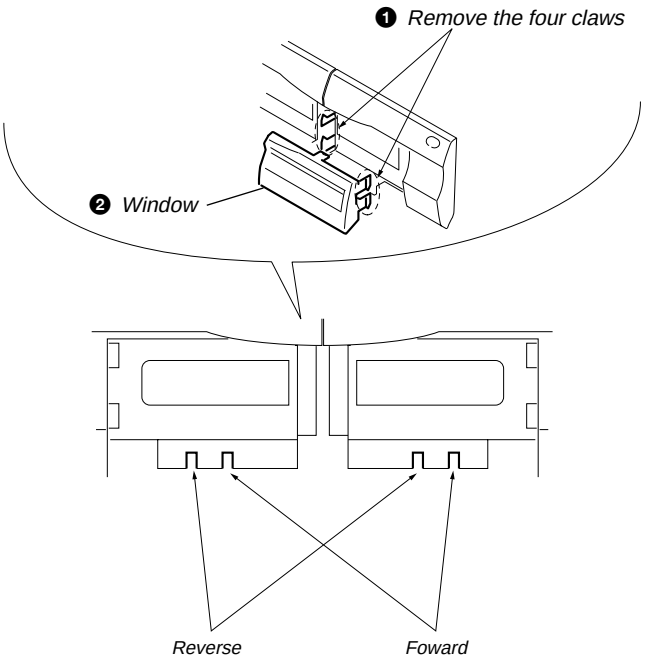
3. Mode: Playback (FWD)





4. Repeat setps 1 to 3 in playback (REV) mode.
5. After the adjustments, apply suitable locking compound to the pats adjusted.

Adjustment Location: Playback Head (Deck A).
Record/Playback/Erase Head (Deck B).



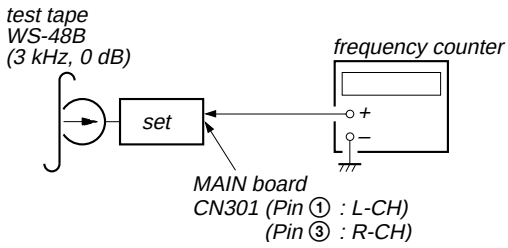
Tape Speed Adjustment DECK B

Note: Start the Tape Speed adjustment as below after setting to the test mode.
In the test mode, the tape speed is high during pressing the HI-DUB button.

Procedure:

1. Turn the power switch on.
2. Press the ■ button, ENTER/NEXT button and DISC 3 button simultaneously.
(The "VOLUME" on the fluorescent indicator tube will blink while in the test mode.)
To exit from the test mode, press the I/⏻ button.

Mode: Playback



1. Insert the WS-48B into the deck B.
2. Press the ▷ button on the deck B.
3. Press the HI-DUB button in playback mode.
Then at HIGH speed mode.
4. Adjust RV1001 on the LEAF SW board do that frequency counter reads 6,000 ± 180 Hz.
5. Press the HI-DUB button.
Then back to NORMAL speed mode.
6. Adjust RV1002 on the LEAF SW board so that frequency counter reads 3,000 ± 90 Hz.

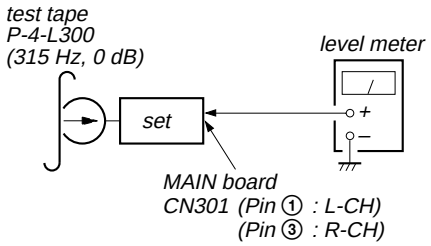
Adjustment Location: LEAF SW board

Sample value of Wow and Flutter: 0.3% or less W.RMS (JIS)
(WS-48B)

Playback level Adjustment DECK A DECK B

Procedure:

Mode: Playback



Deck A is RV311 (L-CH) and RV411 (R-CH), Deck B is RV301 (L-CH) and RV401 (R-CH) so that adjustment within adjustment level as follows.

Adjustment Level:

CN301 PB level: 301.5 to 338.3 mV (–8.2 to –7.2 dB) level difference between the channels: within ± 0.5 dB

Adjustment Location: AUDIO board

REC Bias Adjustment DECK B

Procedure:

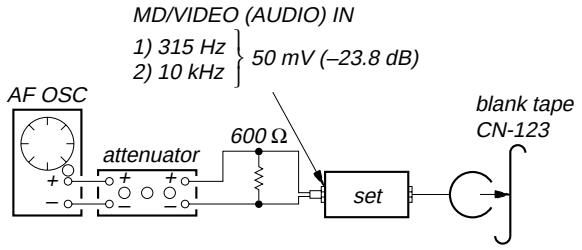
INTRODUCTION

When set to the test mode performed in Tape Speed Adjustment, when the tape is rewound after recording, the "REC memory mode" which rewinds only the recorded portion and playback is set.

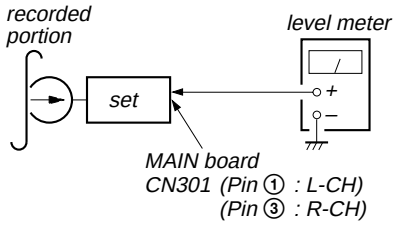
This "REC memory mode" is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO.

(After recording, press the [– ◀◀] button without stopping will return to the position where recording was started.)

1. Press [FUNCTION] button to select VIDEO. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B.
3. After press [● REC] button, press [▮▮] button, then recording start.
4. Mode: Record



5. Mode: Playback



6. Confirm playback the signal recorded in step 3 become adjustable level as follows.
   If these levels do not adjustable level, adjustment the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 4 and 5.

Adjustable level: Playback output of 315 Hz to playback output of 10 kHz: ± 1.0 dB

Adjustment Location: AUDIO board

REC Level Adjustment DECK B

Procedure:

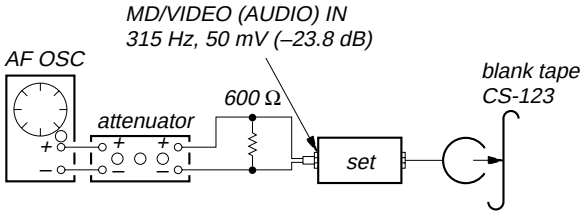
INTRODUCTION

When set to the test mode performed in Tape Speed Adjustment, when the tape is rewound after recording, the "REC memory mode" which rewinds only the recorded portion and playback is set.

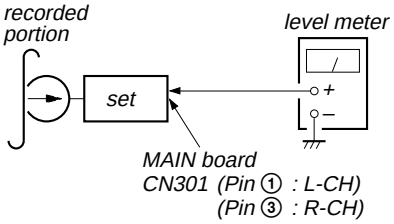
This "REC memory mode" is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO.

(After recording, press the [– ◀◀] button without stopping will return to the position where recording was started.)

1. Press [FUNCTION] button to select VIDEO. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B.
3. After press [● REC] button, press [▮▮] button, then recording start.
4. Mode: Record



5. Mode: Playback



6. Confirm playback the signal recorded in step 3 become adjustable level as follows.
   If these levels do not adjustable level, adjustment the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 4 and 5.

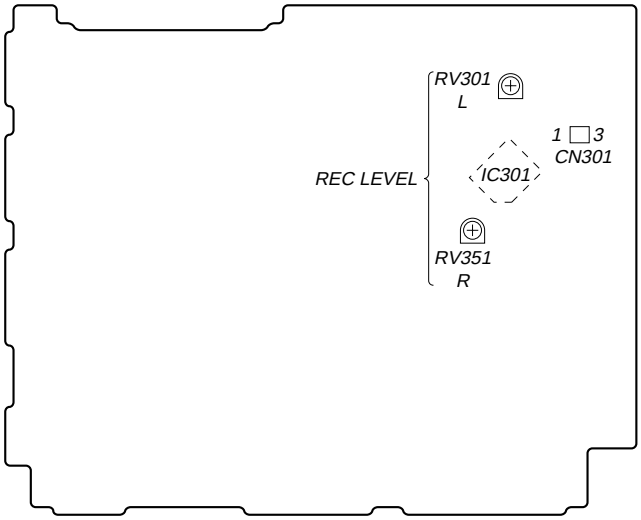
Adjustable level:

CN301 PB level: 47.2 to 53.0 mV (–24.3 to –23.3 dB)

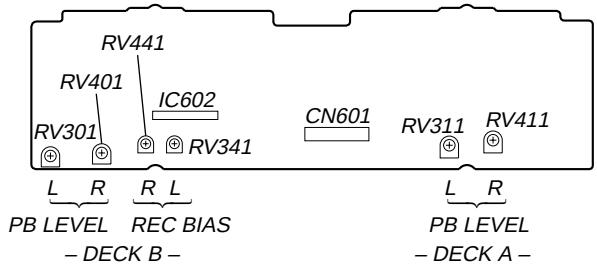
Adjustment Location: MAIN board

Adjustment Location:

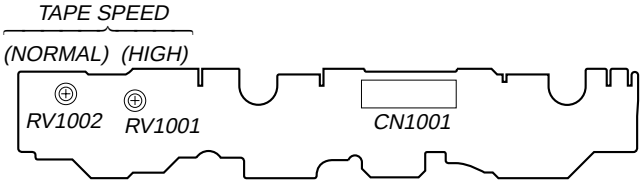
[MAIN Board] (Component Side)



[AUDIO Board] (Component Side)



[LEAF SW Board] (Component Side)



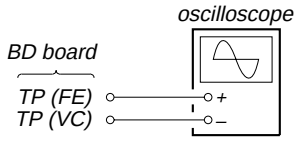
CD SECTION

Notes:

1. CD block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (Part No.: 3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10 MΩ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S-Curve Check

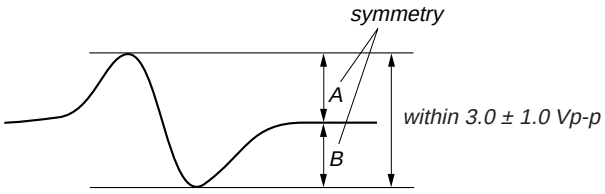
Connection:



Procedure:

1. Connect the oscilloscope to TP (FE) and TP (VC) on BD board.
2. Connect between test point TP (FOK) and GND by lead wire.
3. Turned power switch on.
4. Put disc (YEDS-18) in and turned power switch on again and actuate the focus search. (actuate the focus search when disc table is moving in and out.)
5. Confirm that the oscilloscope waveform (S-curve) is symmetrical between A and B. And confirm peak to peak level within 3.0 ± 1.0 Vp-p.

S-curve waveform

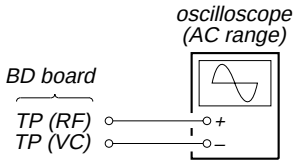


6. After check, remove the lead wire connected in step 2.

Note: • Try to measure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.
• Take sweep time as long as possible and light up the brightness to obtain best waveform.

RF Level Check

Connection:

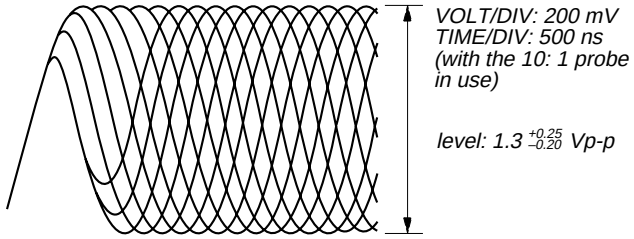


Procedure:

1. Connect the oscilloscope to TP (RF) and TP (VC) on BD board.
2. Turned power switch on.
3. Put disc (YEDS-18) in and press the ▷II button.
4. Confirm that the oscilloscope waveform is clear and check RF signal level is correct or not.

Note: Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

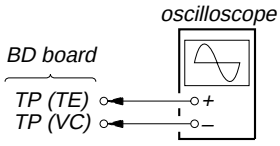
RF signal waveform



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

E-F Balance (Traverse) check

Connection:

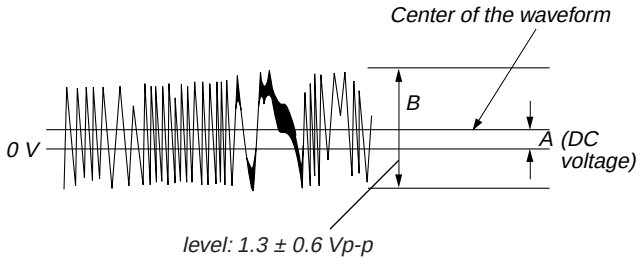


Procedure:

1. Short-circuit SL502 of the VIDEO board to GND.
2. Connect oscilloscope to test point TP (TE) on BD board.
3. Turned Power switch on. Press FUNCTION button to select CD.
4. Put disc (YEDS-18) in to play the number five track.
5. Press the PLAY MODE button.
   (The tracking servo and the sledding servo are turned OFF.)
6. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform.
   Confirm the following:

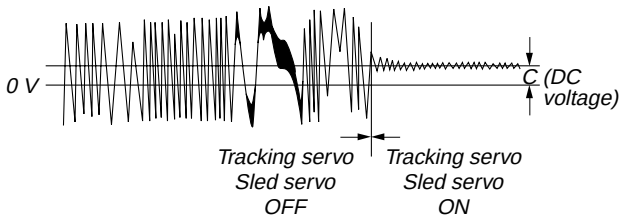
$$\frac{A}{B} \times 100 = \text{less than } \pm 22\ (\%)$$

Traverse waveform



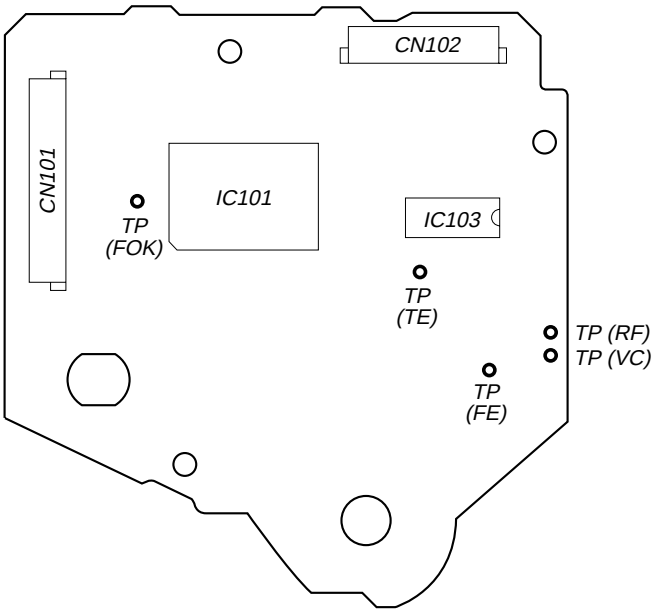
7. Press the PLAY MODE button. (The tracking servo and sledding servo are turned ON.) Confirm the C (DC voltage) is almost equal to the A (DC voltage) is step 6.

Traverse waveform



8. Desolder the short-land (SL502) short-circuited at step 1.

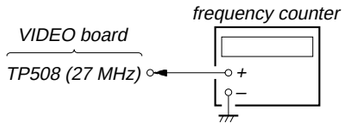
Connection Location:
[BD Board] (Side A)



VIDEO SECTION

Frequency Adjustment

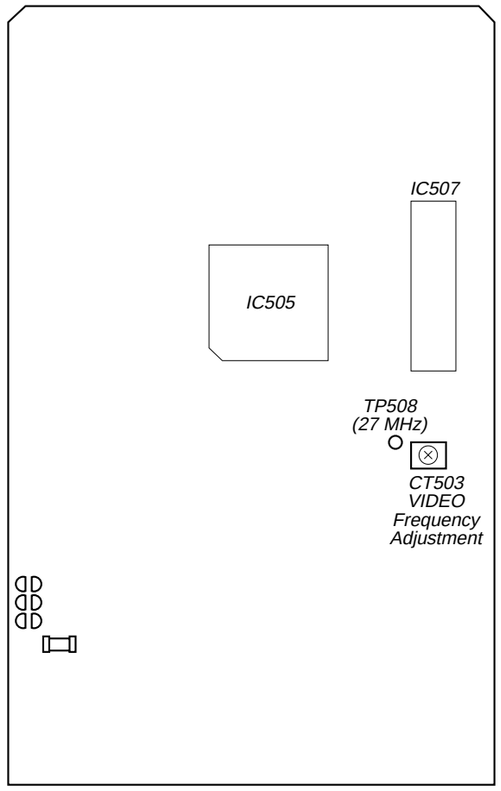
Connection:



Procedure:

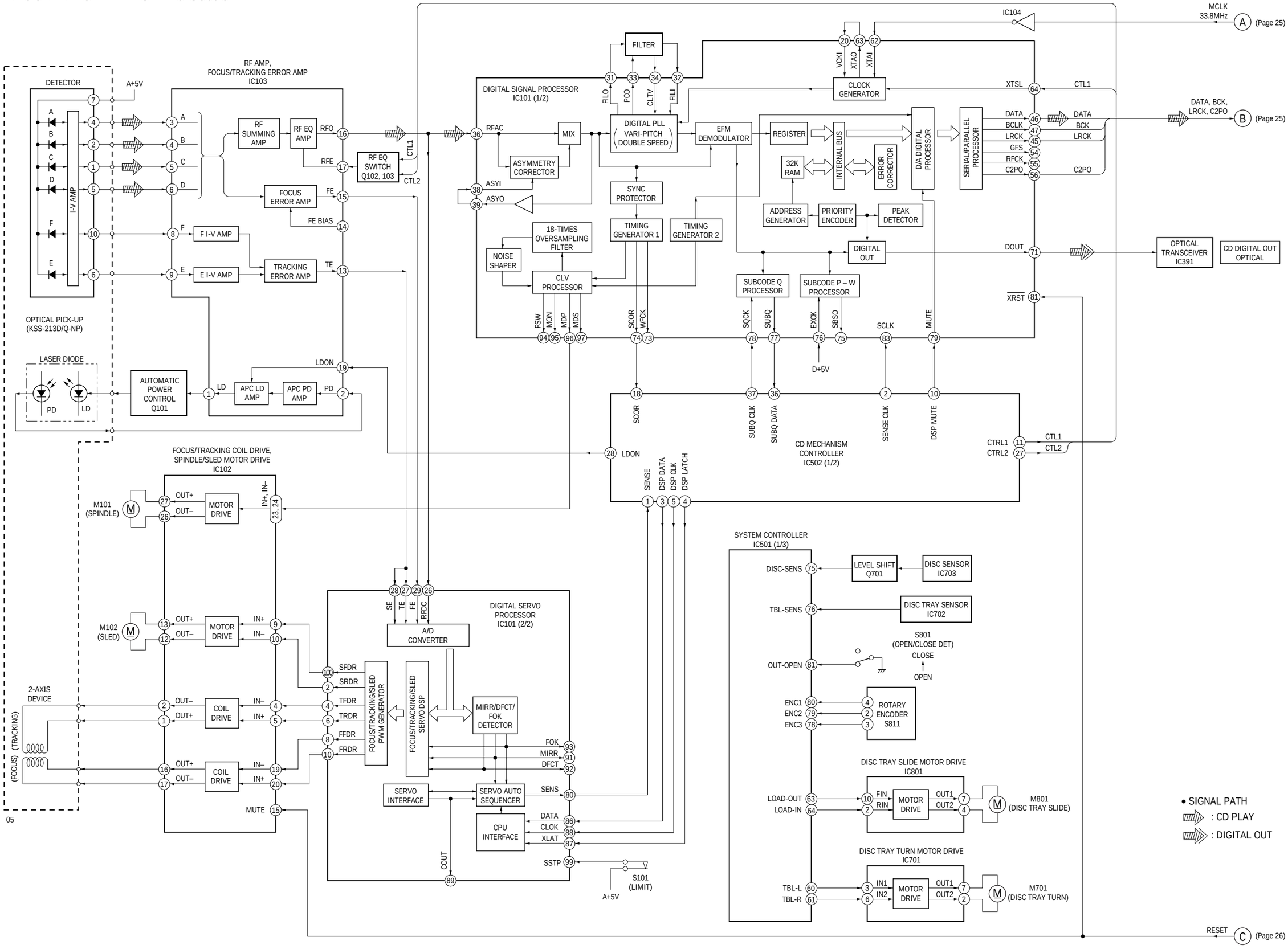
1. Connect the frequency counter to TP508 (27 MHz) on VIDEO board.
2. Turned power switch on.
3. Press the FUNCTION button to select the CD.
4. Adjust CT503 on the VIDEO board so that the frequency counter reading 27.0 MHz ± 80 Hz at stop status.

Adjustment Location:
[VIDEO Board] (Side A)

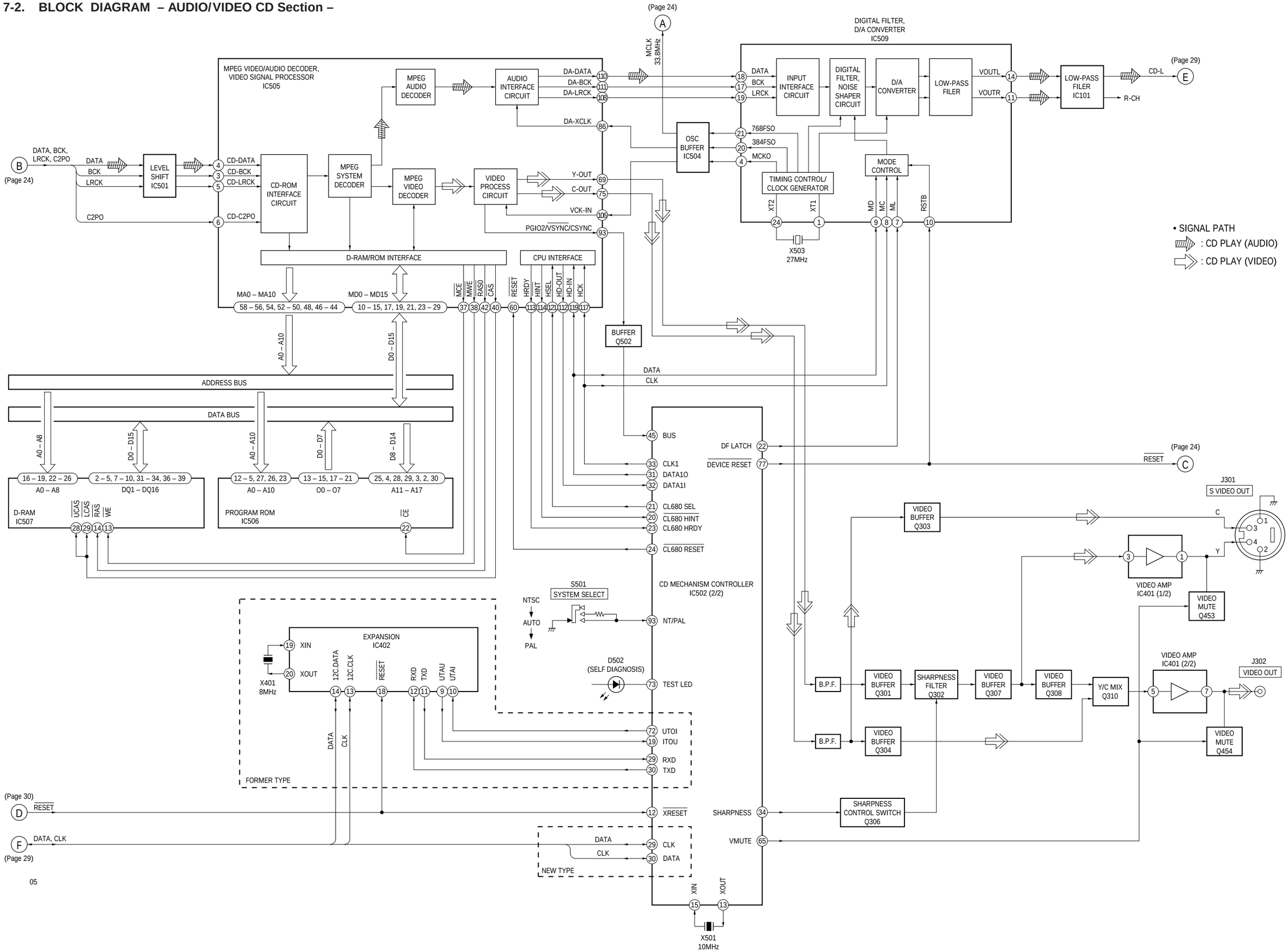


SECTION 7
DIAGRAMS

7-1. BLOCK DIAGRAM – SERVO Section –

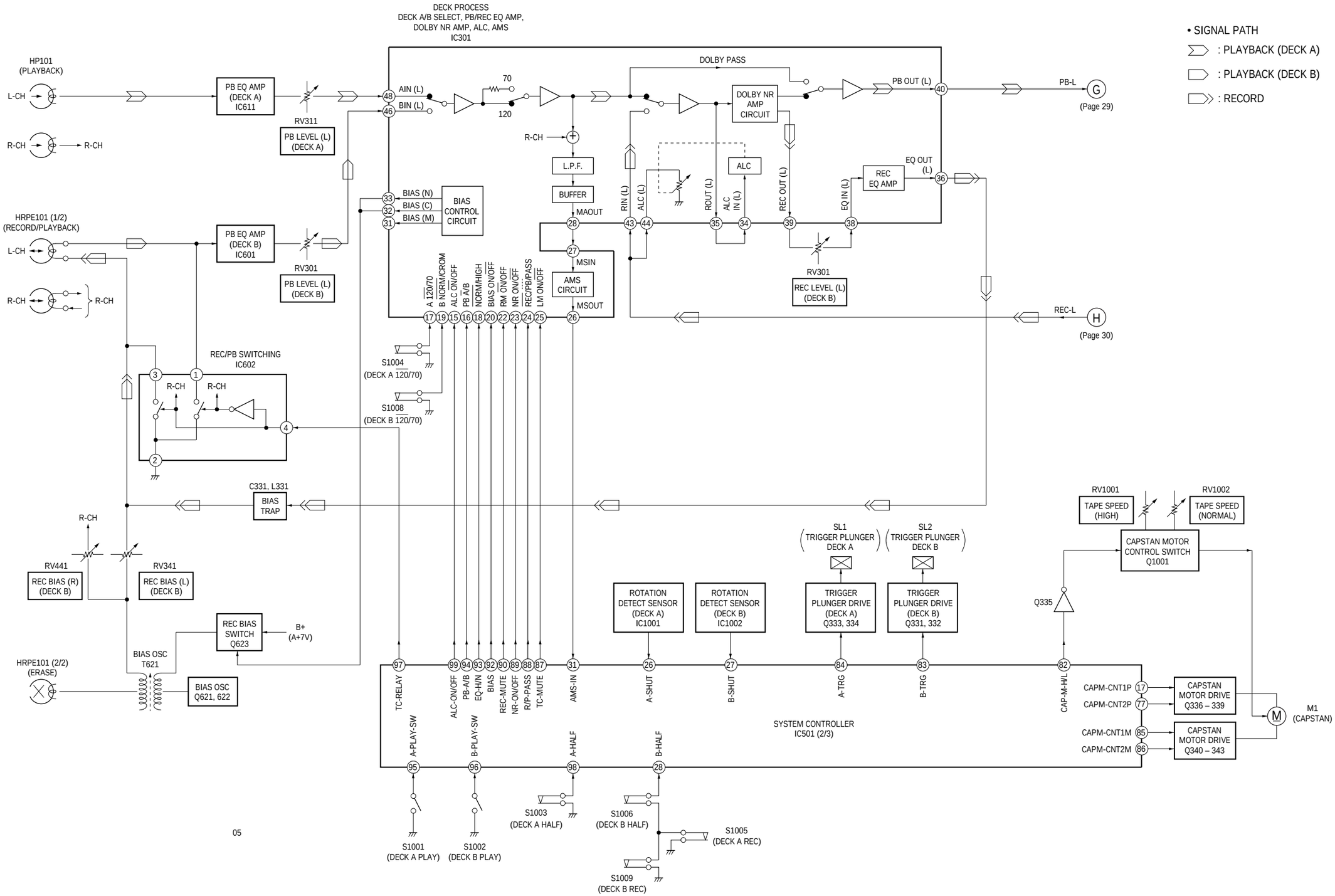


7-2. BLOCK DIAGRAM – AUDIO/VIDEO CD Section –

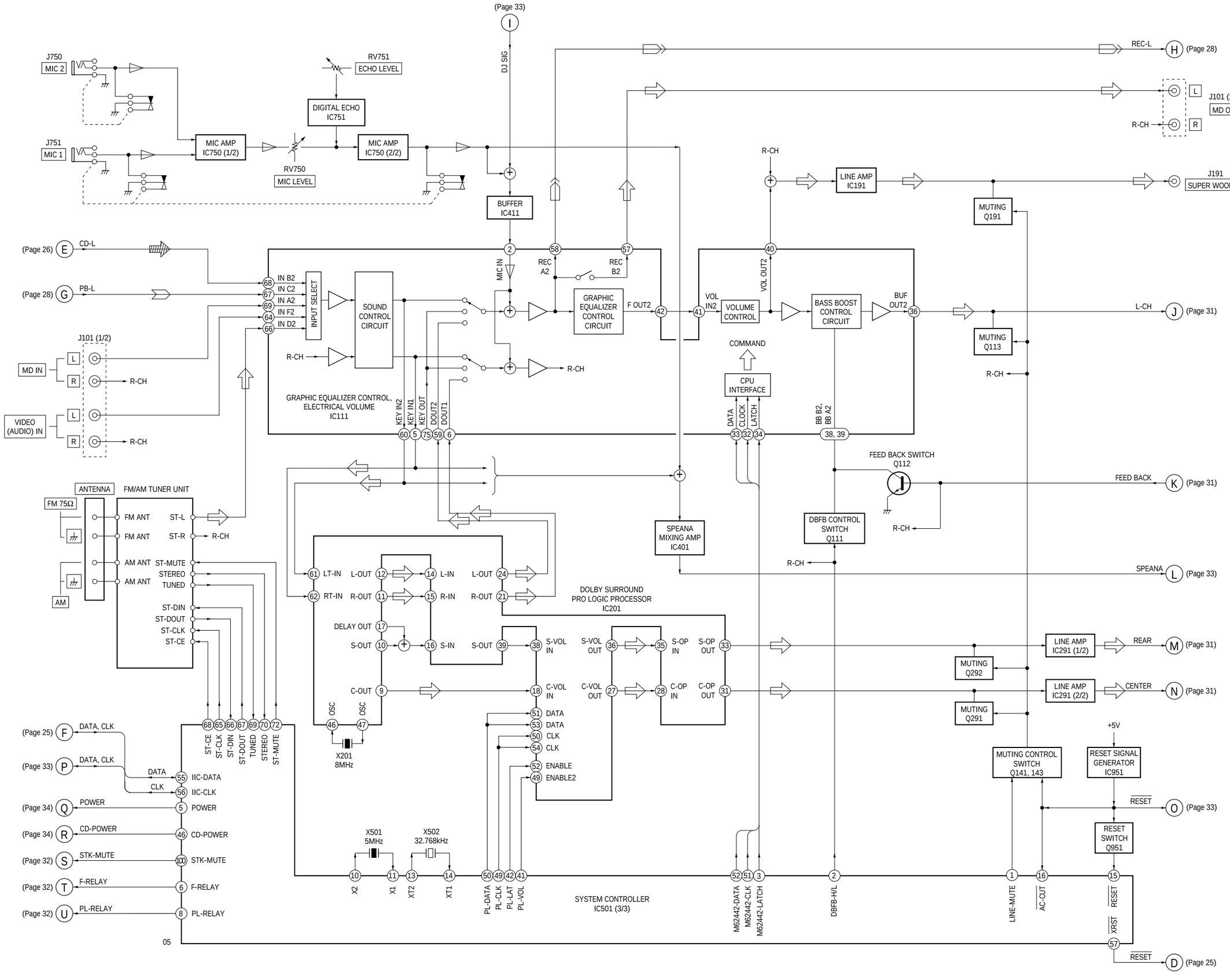


05

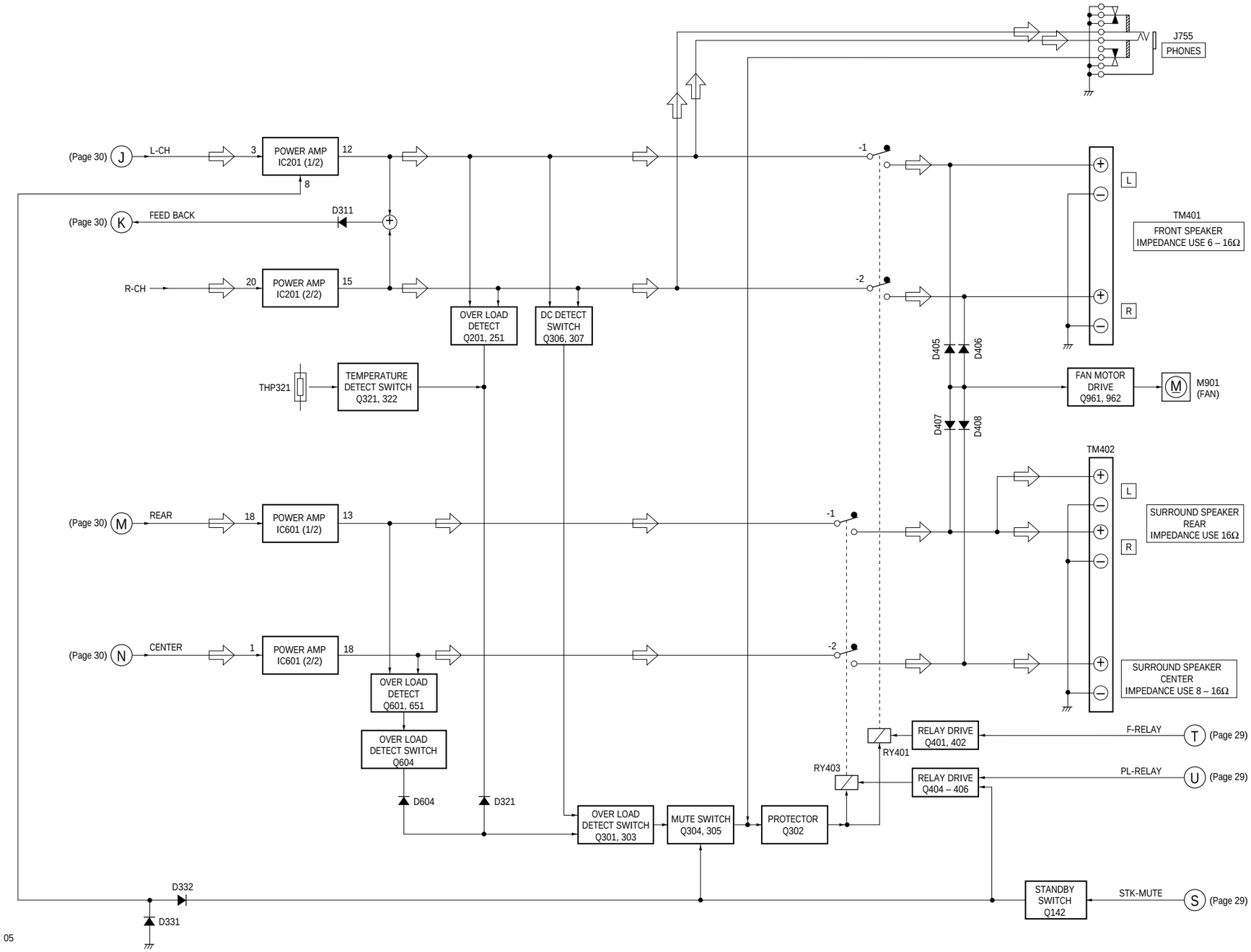
7-3. BLOCK DIAGRAM – TAPE DECK Section –



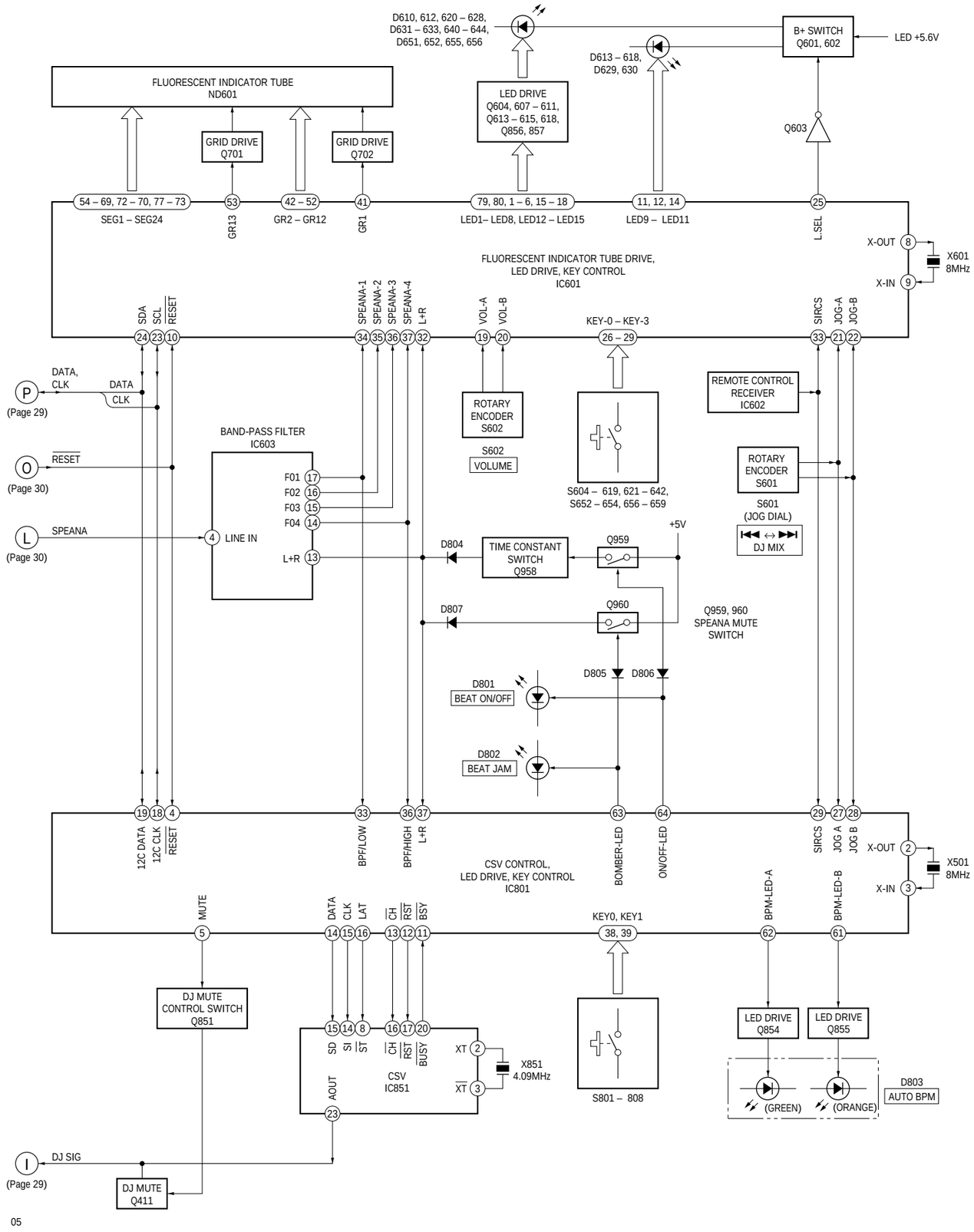
7-4. BLOCK DIAGRAM – MAIN Section (1/2) –

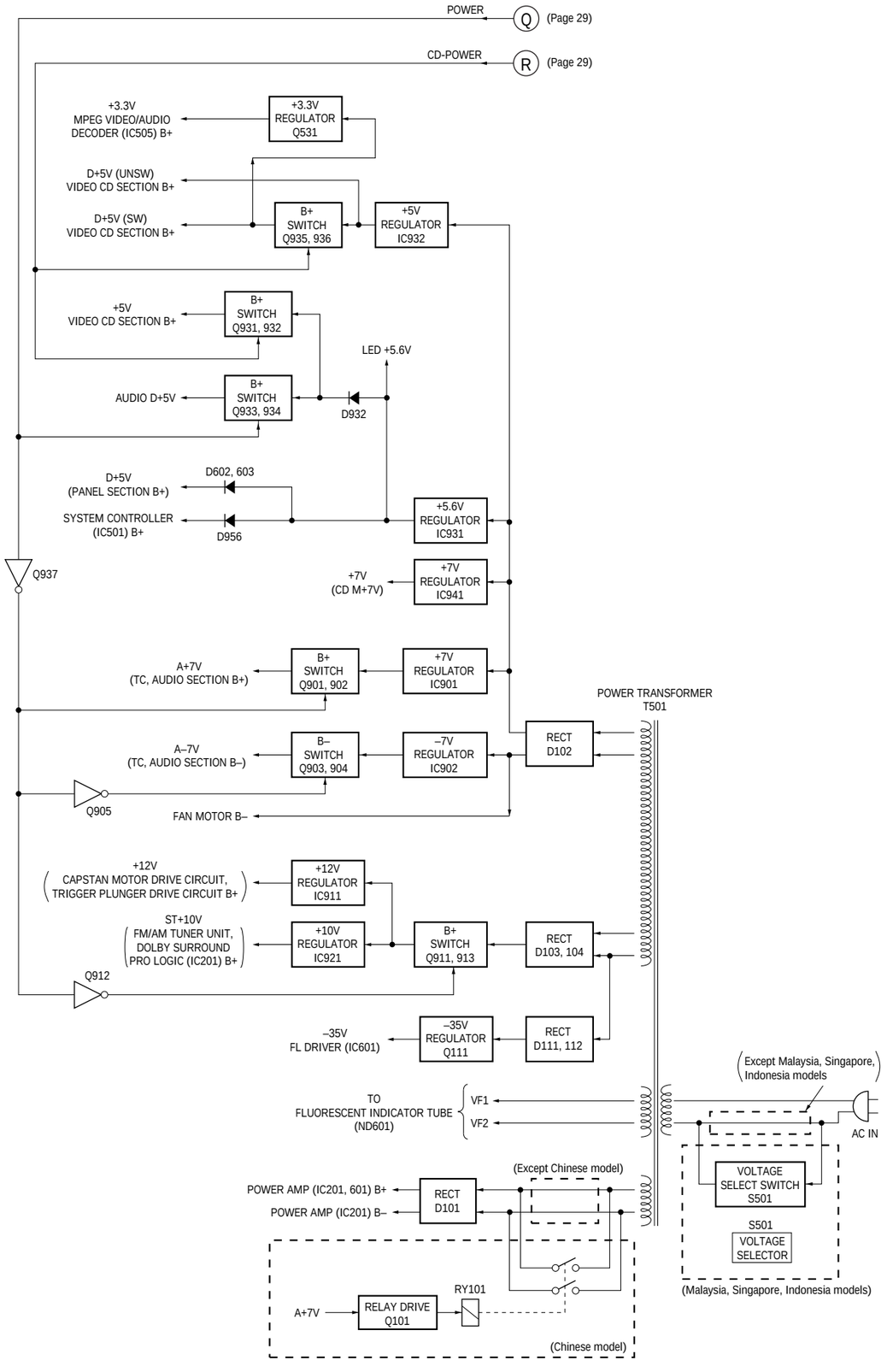


7-5. BLOCK DIAGRAM – MAIN Section (2/2) –

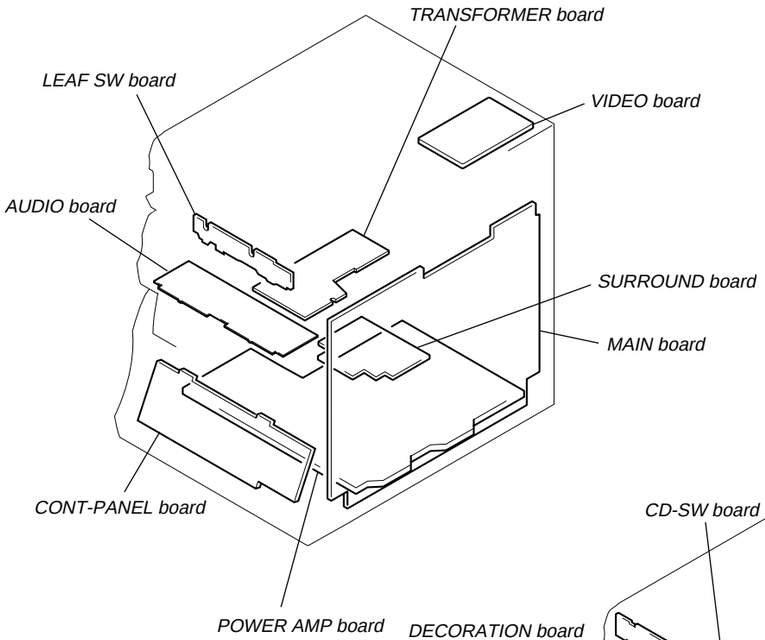


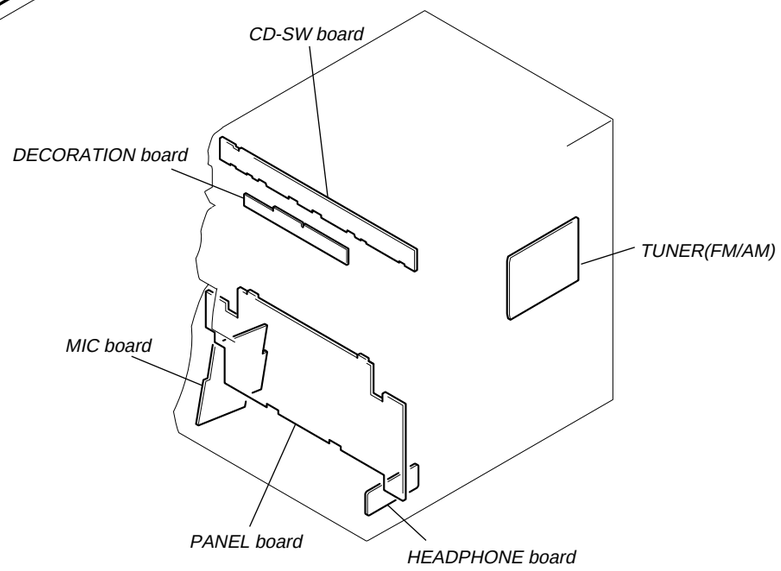
7-6. BLOCK DIAGRAM – DISPLAY/KEY CONTROL/POWER SUPPLY Section –

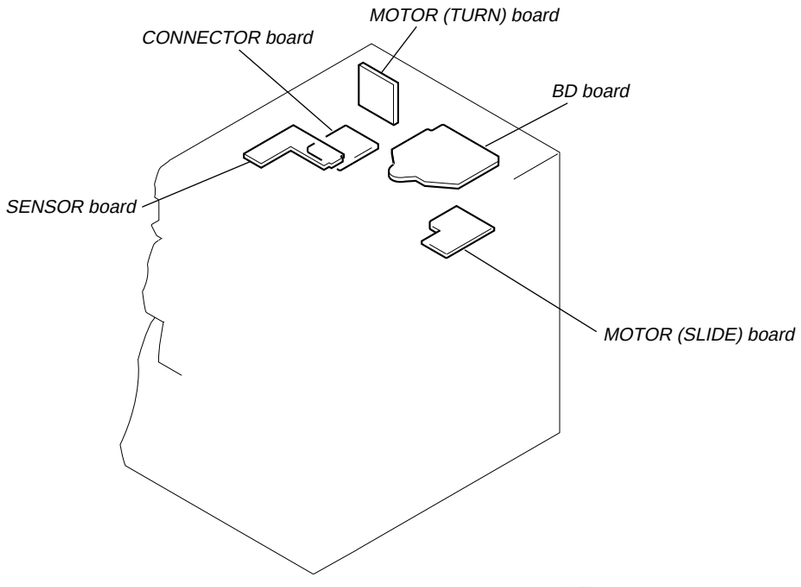




• **Circuit Boards Location**







7-7. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

Note on Schematic Diagrams:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- : nonflammable resistor.
- : fusible resistor.
- : panel designation.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

- B+ : B+ Line.
- B− : B– Line.
- : adjustment for repair.
- Voltages and waveforms are taken with a VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  : TUNER (FM/AM)
  : PLAYBACK (DECK A)
  : PLAYBACK (DECK B)
  : RECORD
  : CD PLAY (AUDIO)
  : CD PLAY (VIDEO)
  : DIGITAL OUT
  : MIC INPUT
- Abbreviation
  CH : Chinese model.
  IA : Indonesia model.
  MY : Malaysia model.
  SP : Singapore model.
  TH : Thai model.

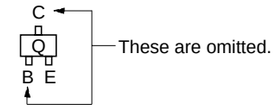
Note on Printed Wiring Boards:

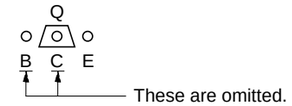
- ○——— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ○ : Through hole.
- ▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

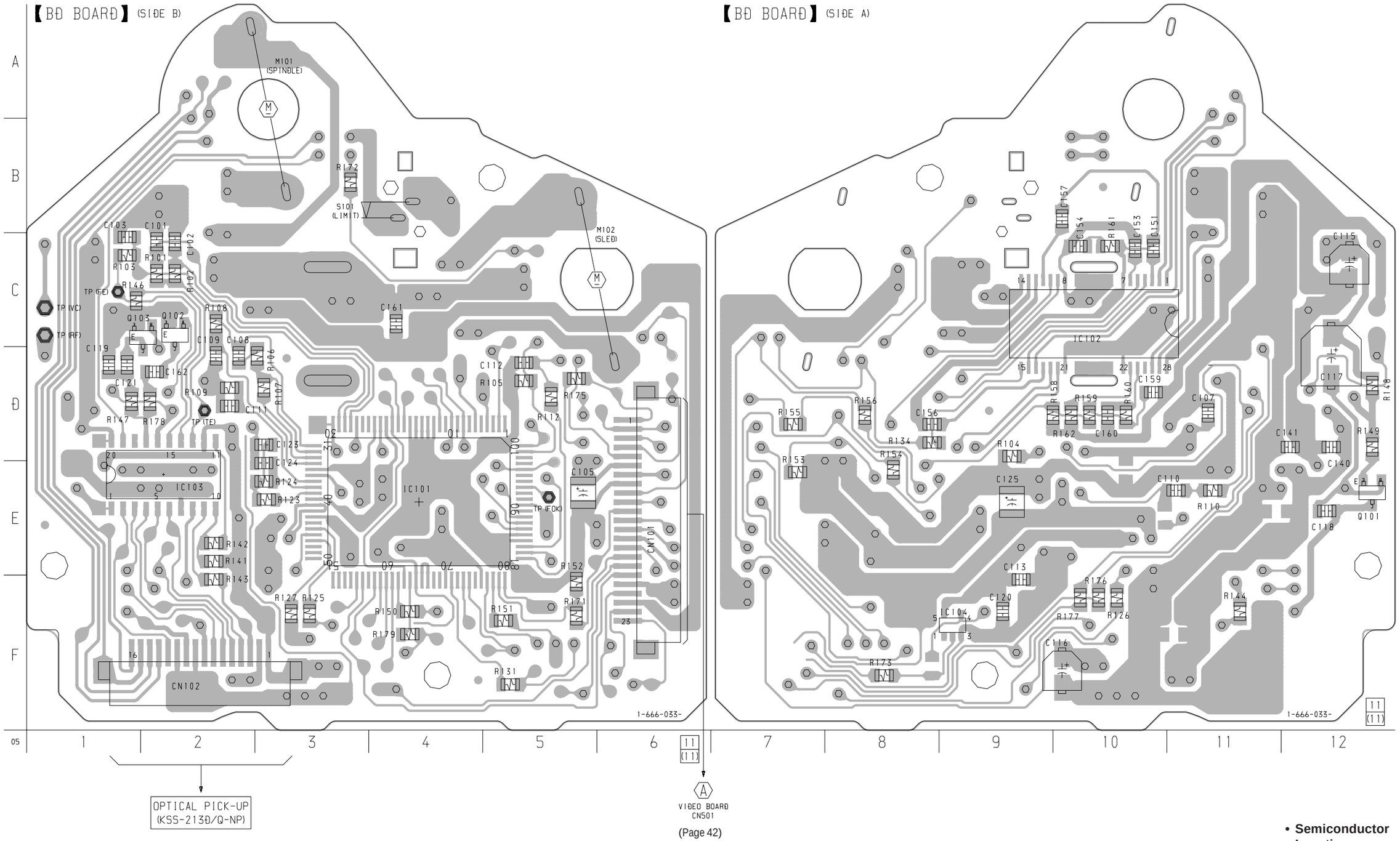
Caution:	
Pattern face side: (Side B)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A)	Parts on the parts face side seen from the parts face are indicated.

- Indication of transistor.





7-8. PRINTED WIRING BOARDS – BD Section – • See page 35 for Circuit Boards Location.

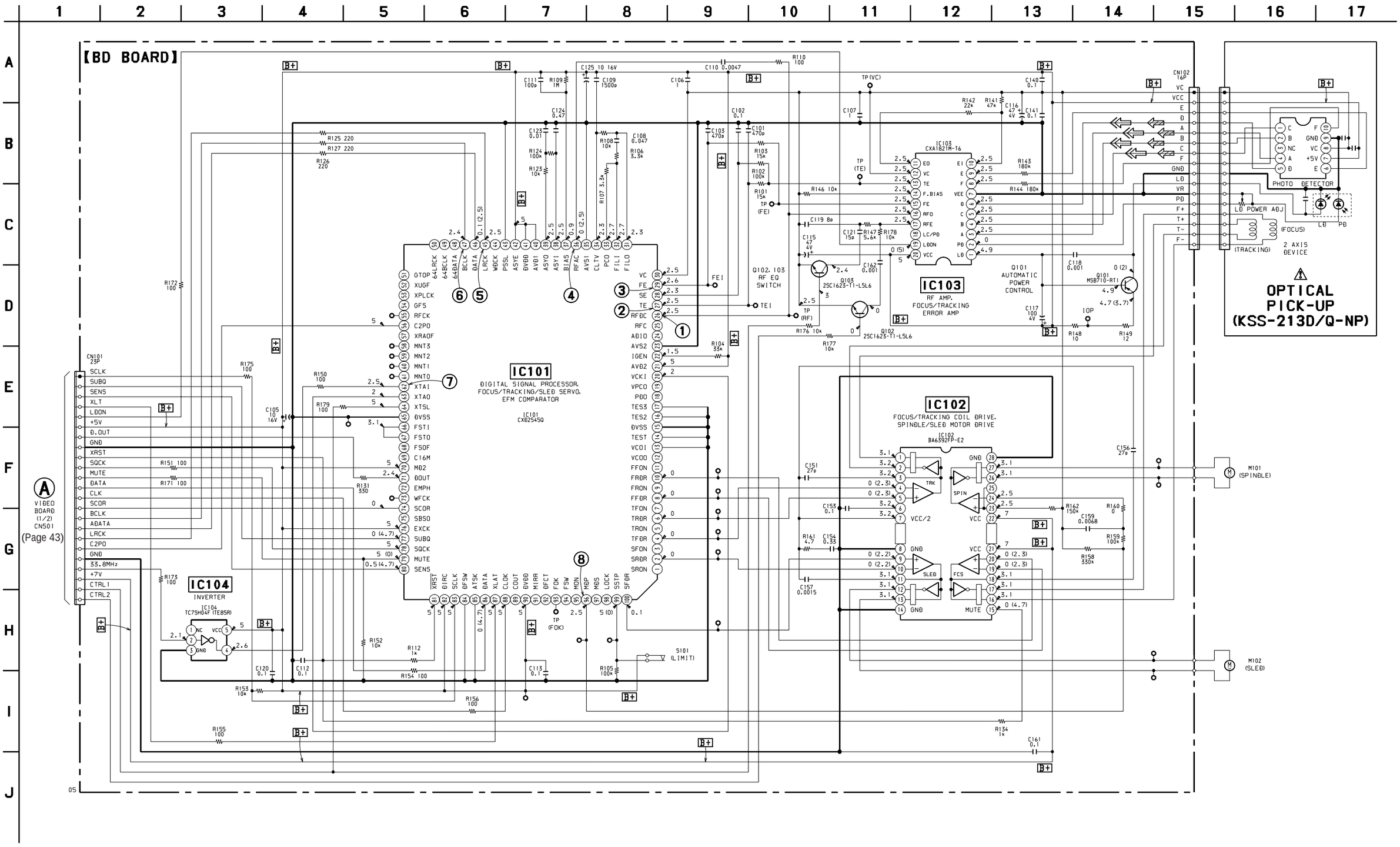


- **Semiconductor Location**

Ref. No.	Location
IC101	E-4
IC102	C-10
IC103	E-2
IC104	F-9
Q101	E-12
Q102	C-2
Q103	C-2

7-9. SCHEMATIC DIAGRAM – BD Section –

• See page 86 for Waveforms. • See page 90 and 91 for IC Block Diagrams.



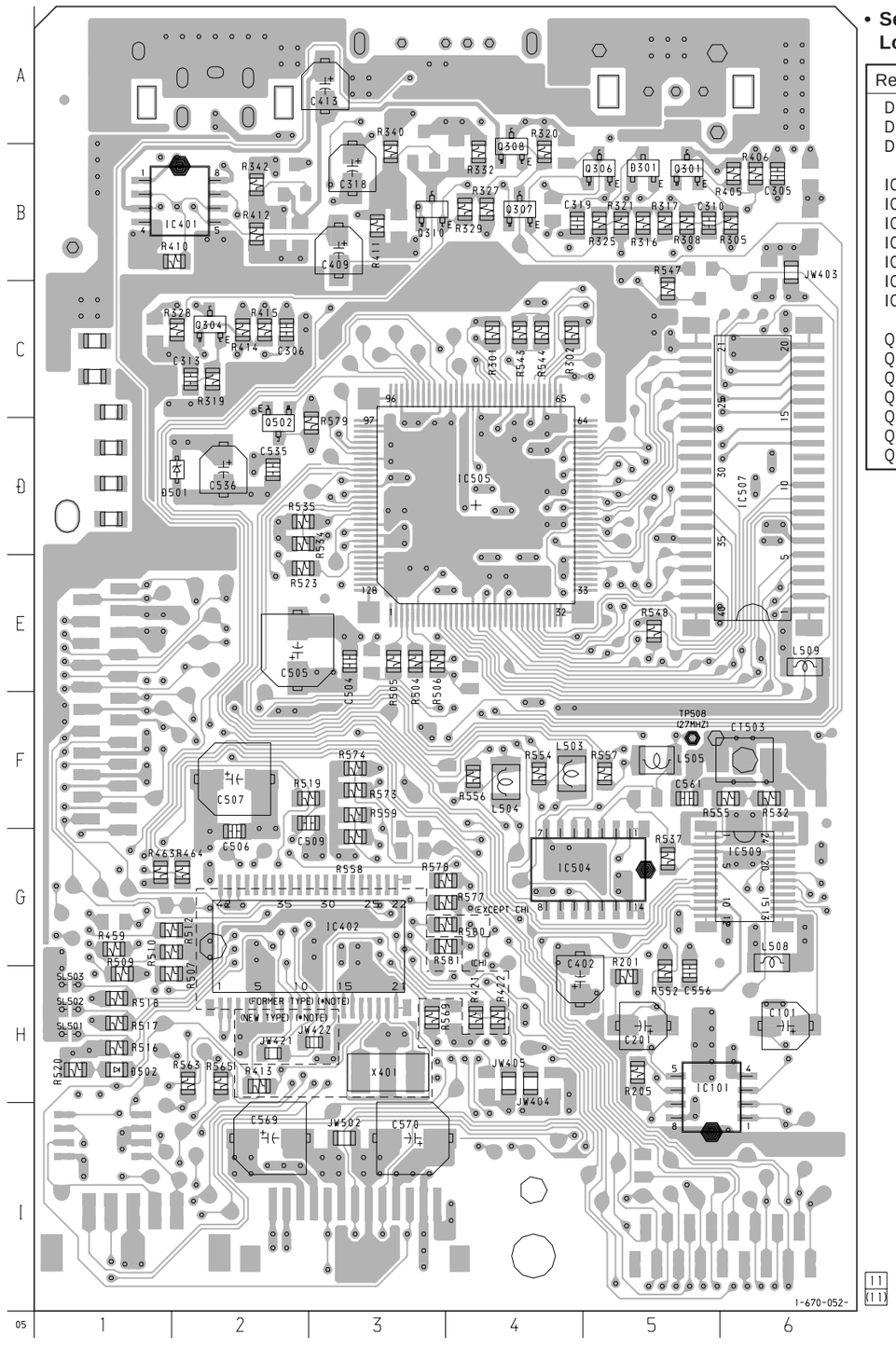
- Voltages and waveforms are dc with respect to ground in CD play mode.
  no mark : CD stop
  ( ) : CD play

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

7-10. PRINTED WIRING BOARD – VIDEO Section – • See page 35 for Circuit Boards Location.

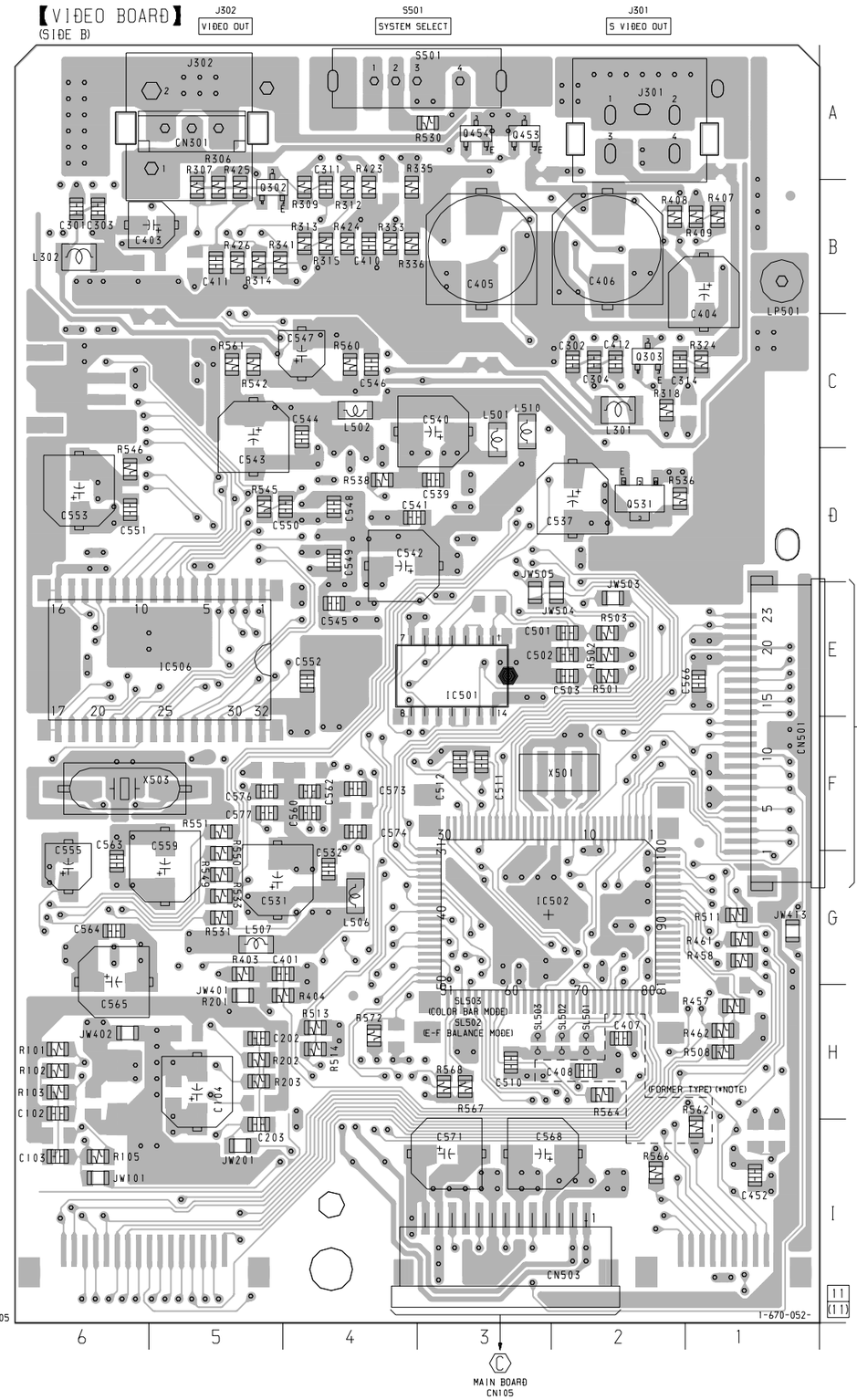
【VIDEO BOARD】(SIDE A)



• **Semiconductor Location**

Ref. No.	Location
D301	B-5
D501	D-2
D502	H-1
IC101	H-5
IC401	B-2
IC402	G-3
IC504	G-4
IC505	D-4
IC507	D-6
IC509	G-6
Q301	B-5
Q304	C-2
Q306	B-5
Q307	B-4
Q308	B-4
Q310	B-3
Q502	D-2

【VIDEO BOARD】(SIDE B)



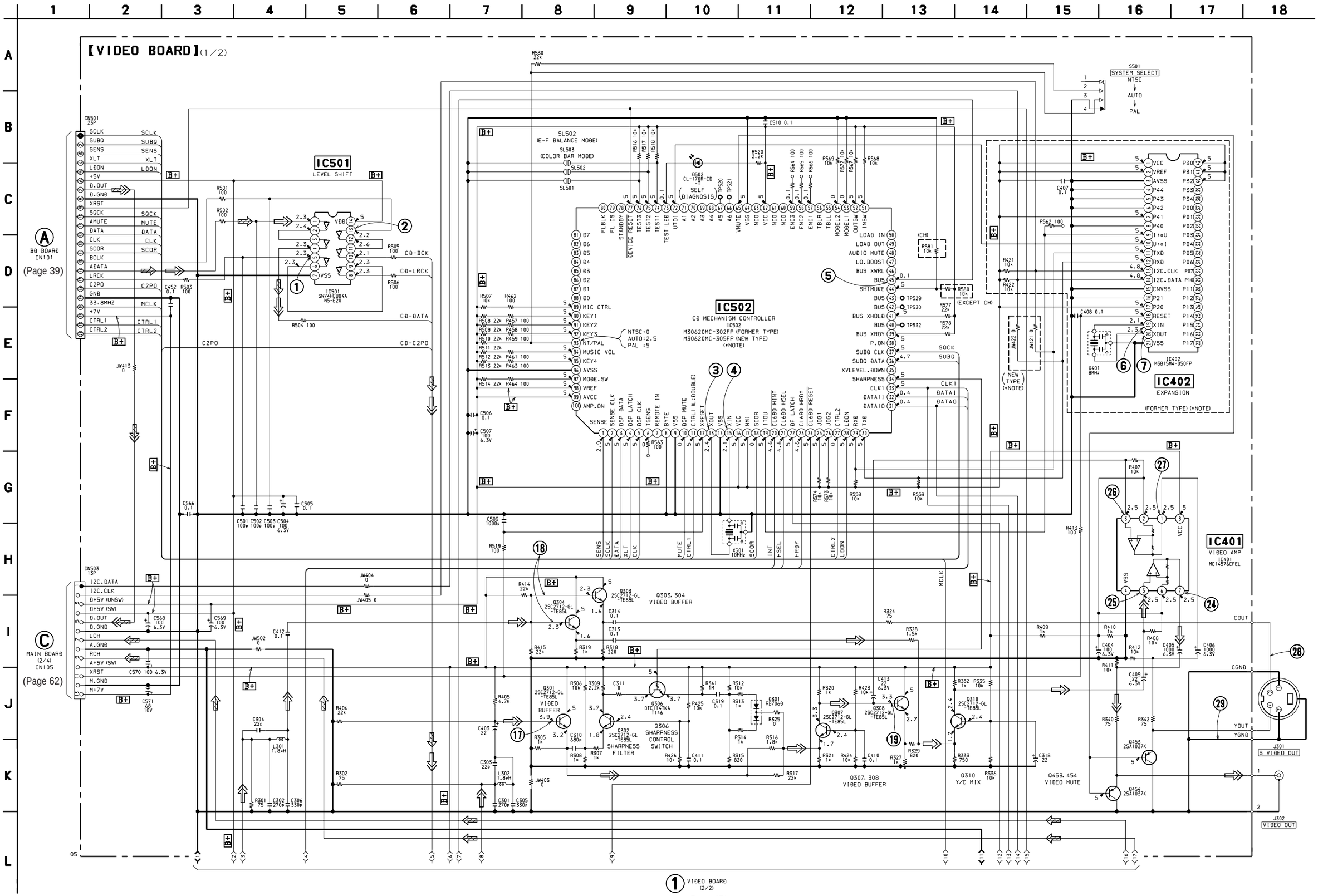
• **Semiconductor Location**

Ref. No.	Location
IC501	E-3
IC502	G-3
IC506	E-5
Q302	B-5
Q303	C-2
Q453	A-3
Q454	A-3
Q531	D-2

(Page 58)

*Note
When replacing IC502, refer to “IC502 of VIDEO board” in “Servicing Notes” (page 4).

7-11. SCHEMATIC DIAGRAM – VIDEO Section (1/2) – • See page 91 for IC Block Diagram.

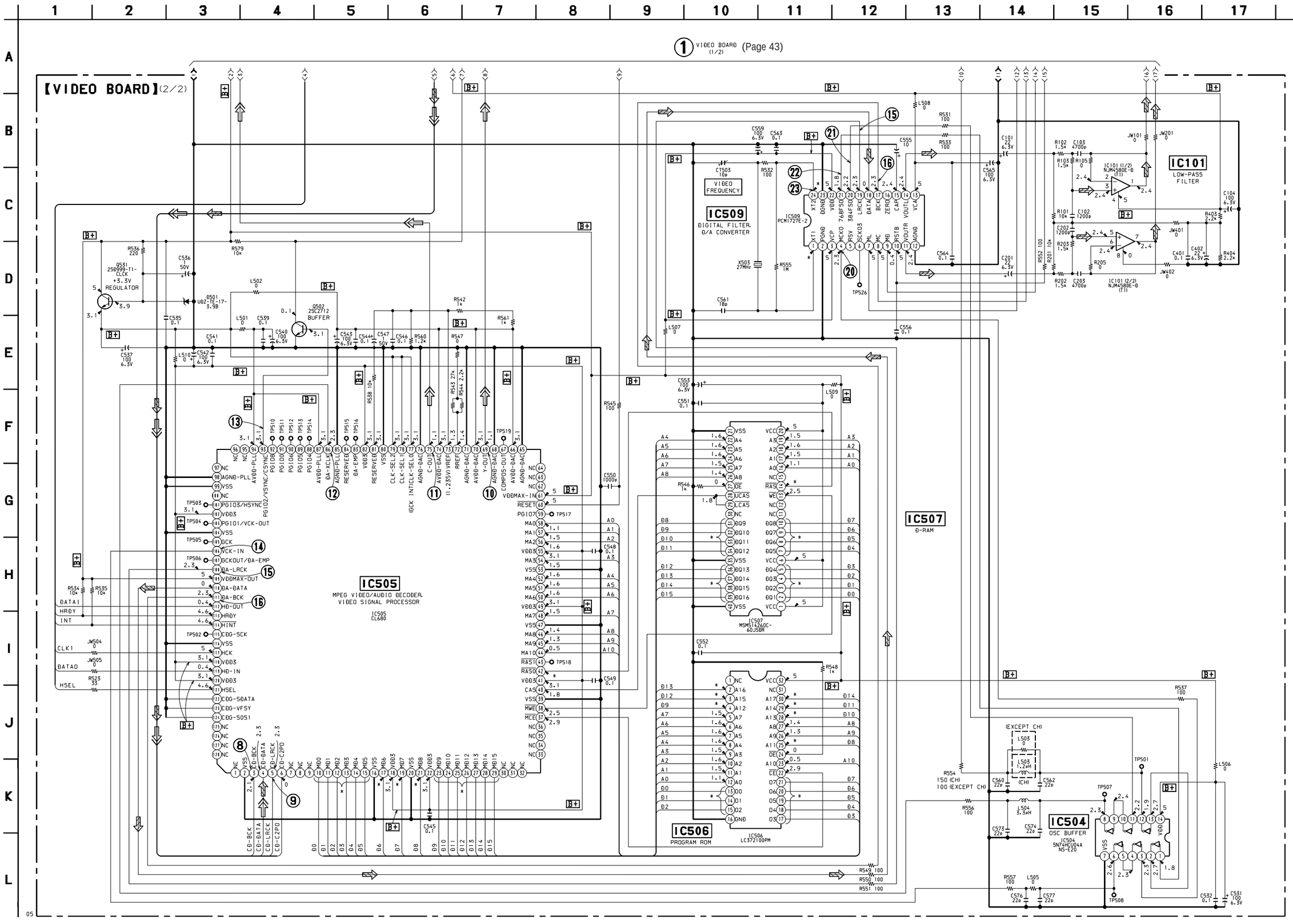


- Voltages and waveforms are dc with respect to ground in VIDEO CD play mode.
  no mark : VIDEO CD play

*Note
When replacing IC502, refer to “IC502 of VIDEO board” in “Servicing Notes” (page 4).

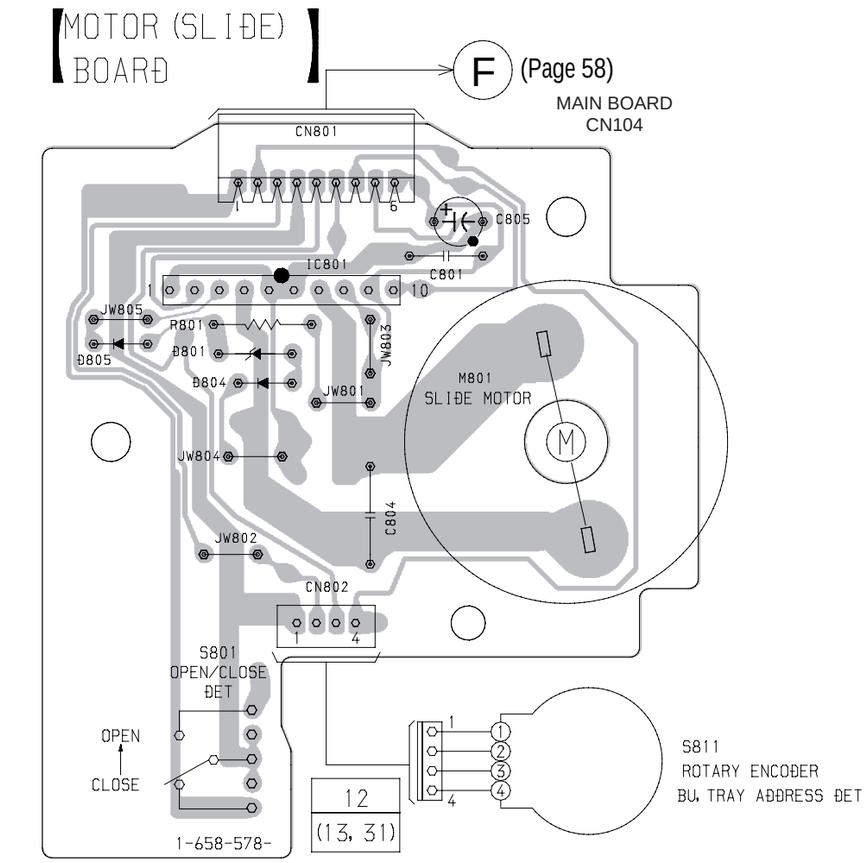
7-12. SCHEMATIC DIAGRAM – VIDEO Section (2/2) –

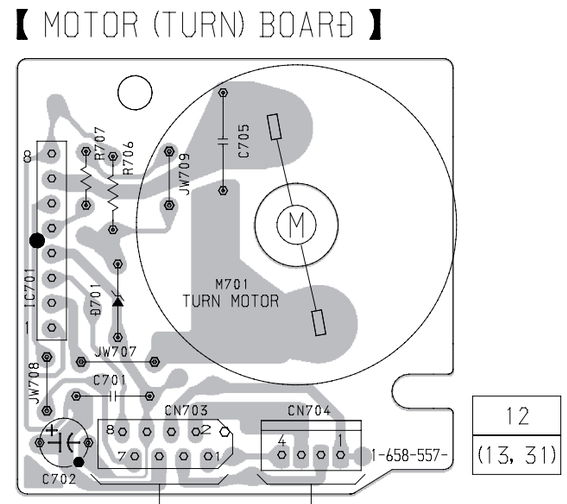
• See page 86 to 88 for Waveforms. • See page 91 for IC Block Diagram.

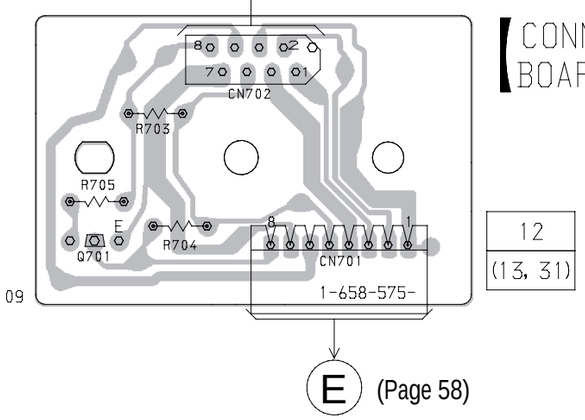


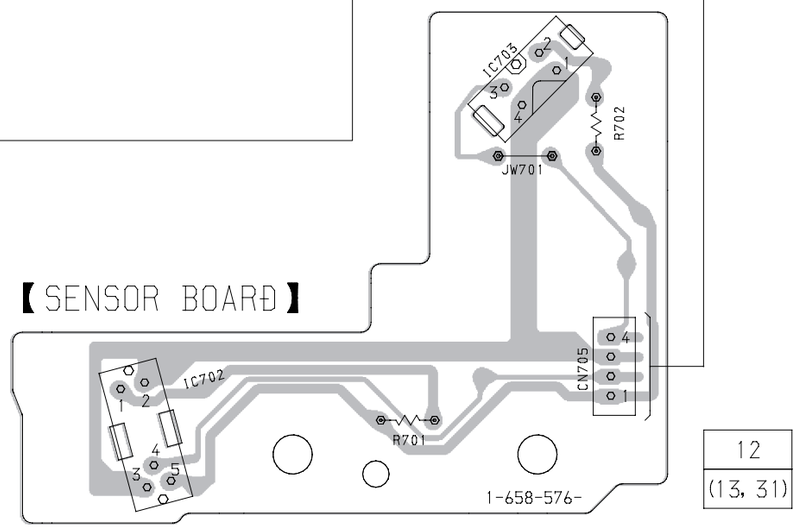
7-13. PRINTED WIRING BOARDS – CD MOTOR Section –

• See page 35 for Circuit Boards Location.

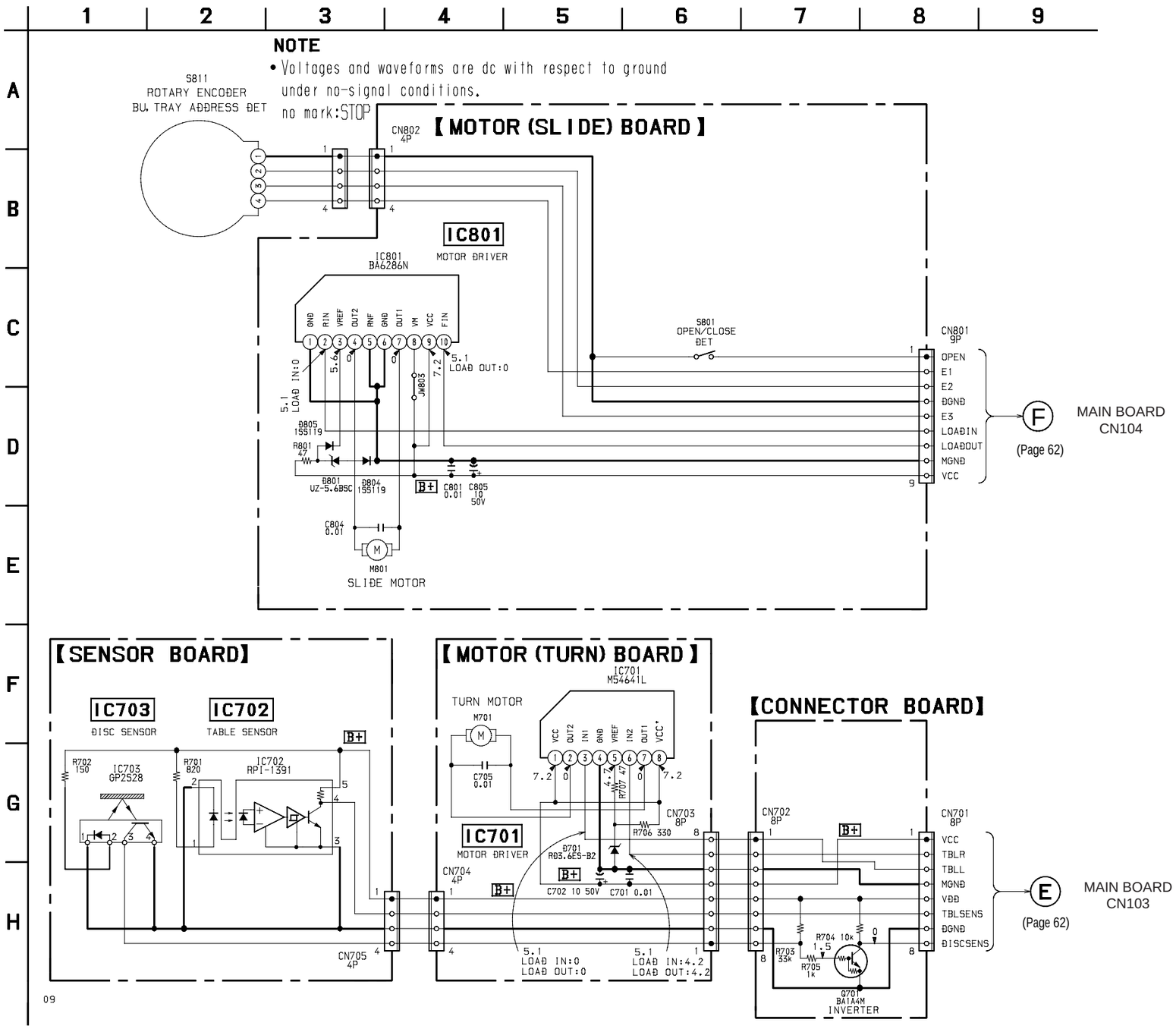






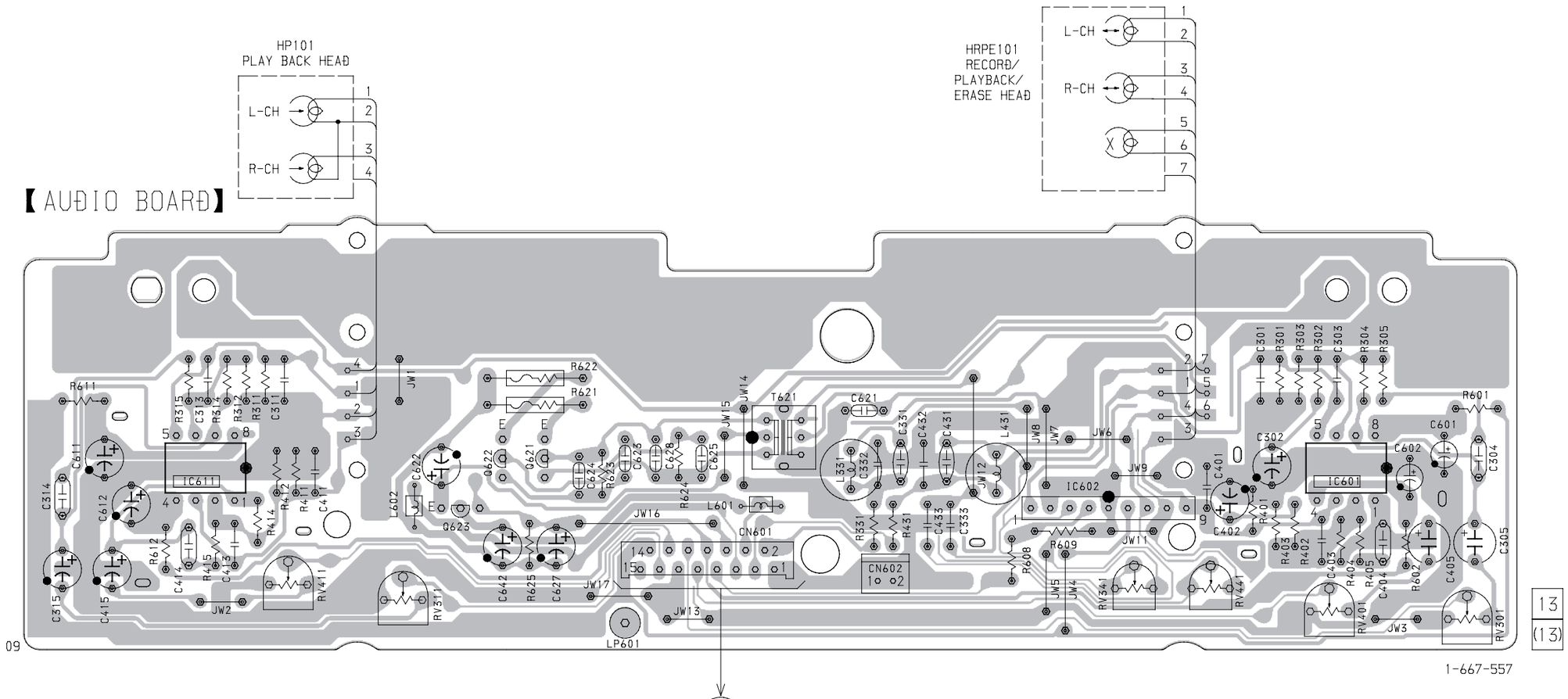


7-14. SCHEMATIC DIAGRAM – CD MOTOR Section – • See page 92 for IC Block Diagrams.



7-15. PRINTED WIRING BOARD – TAPE DECK Section –

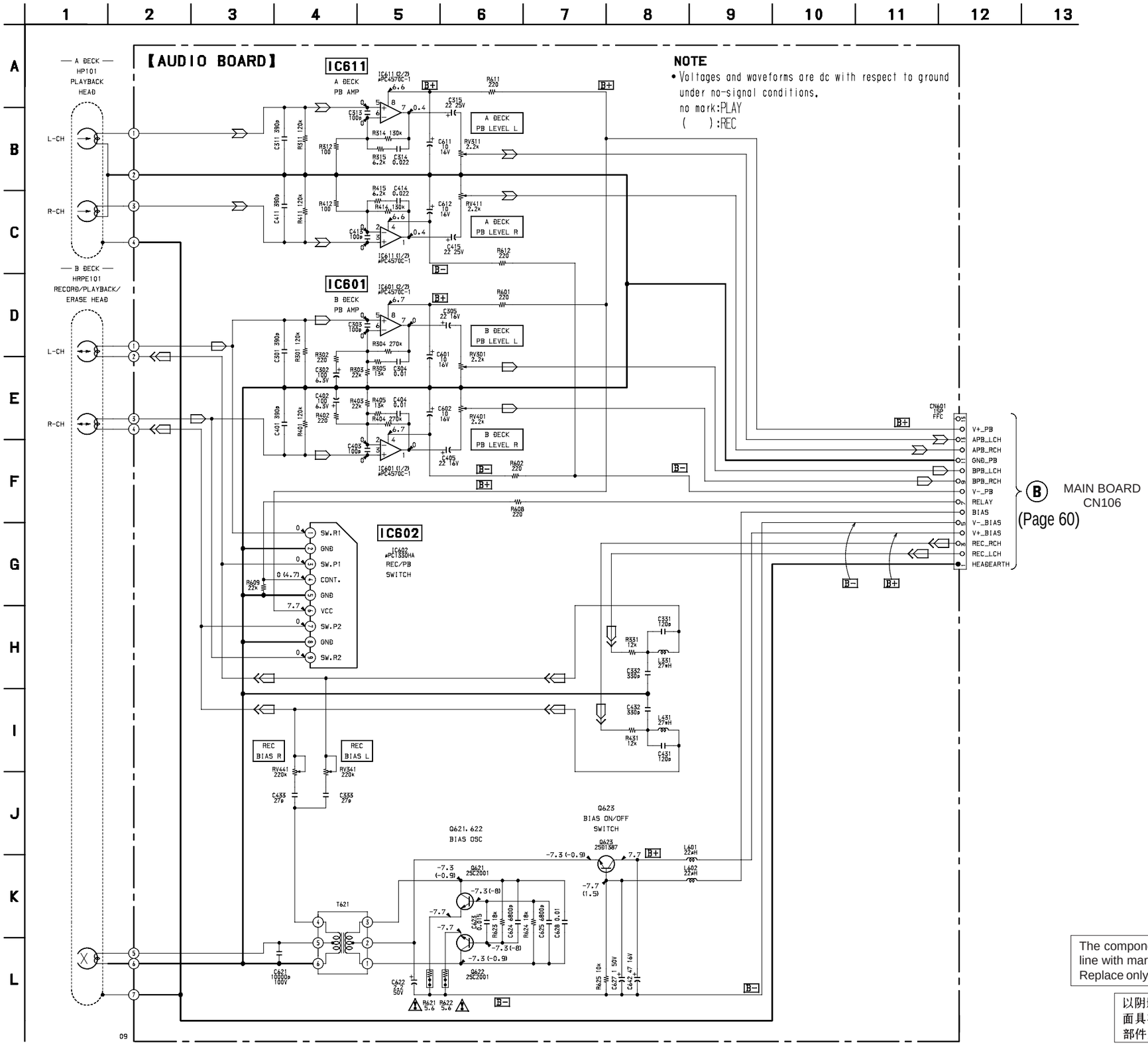
• See page 35 for Circuit Boards Location.



(Page 57)

MAIN BOARD
CN106

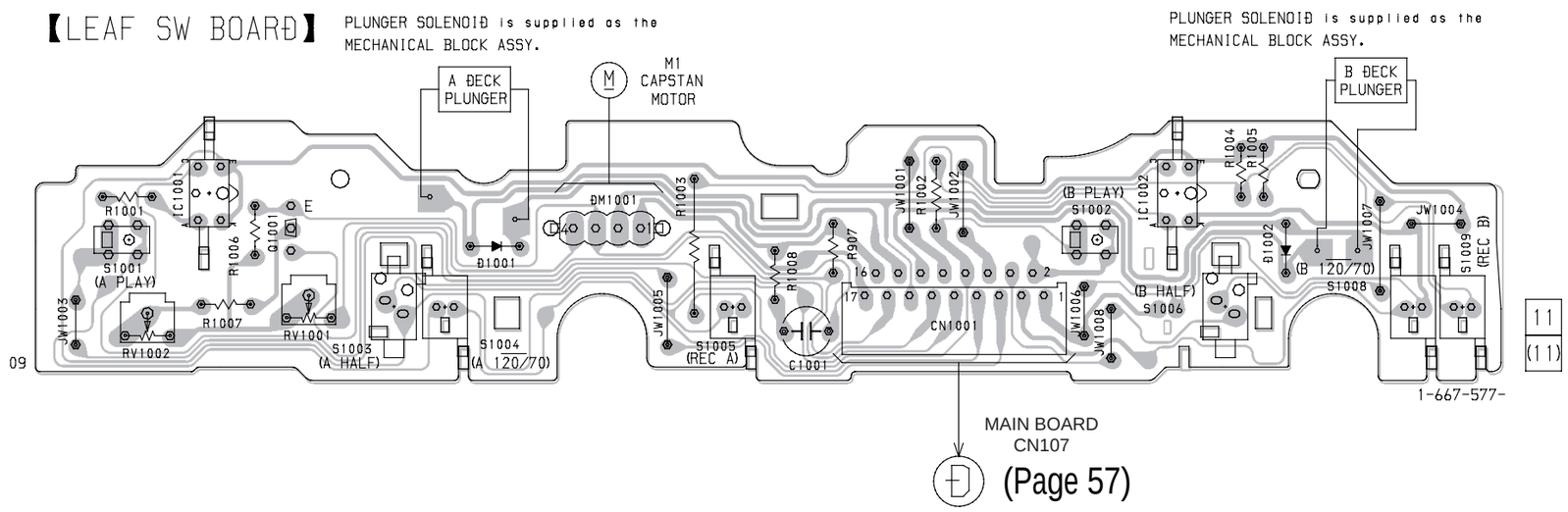
7-16. SCHEMATIC DIAGRAM – TAPE DECK Section – • See page 92 for IC Block Diagram.



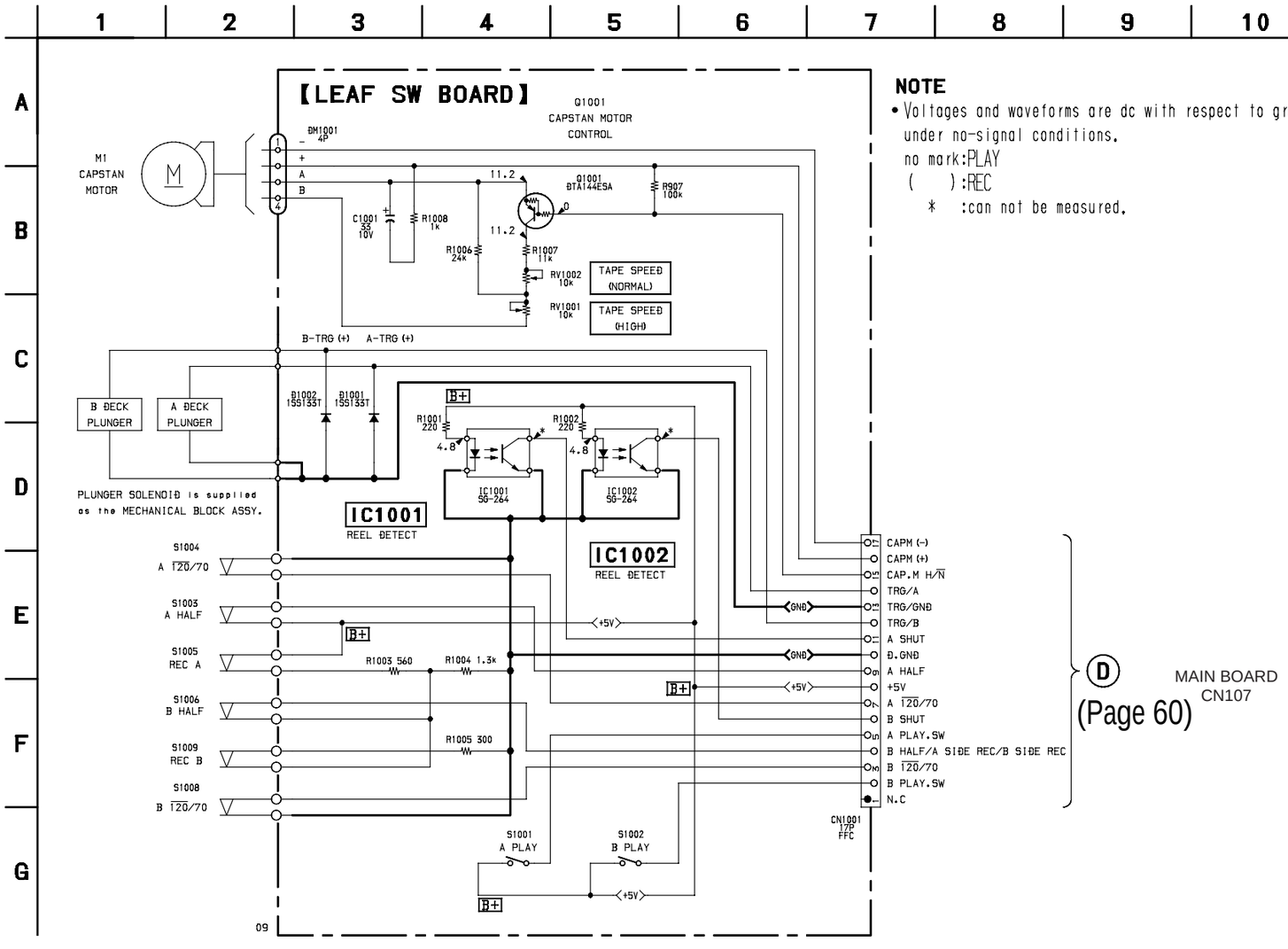
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

7-17. PRINTED WIRING BOARD – LEAF SW Section – • See page 35 for Circuit Boards Location.



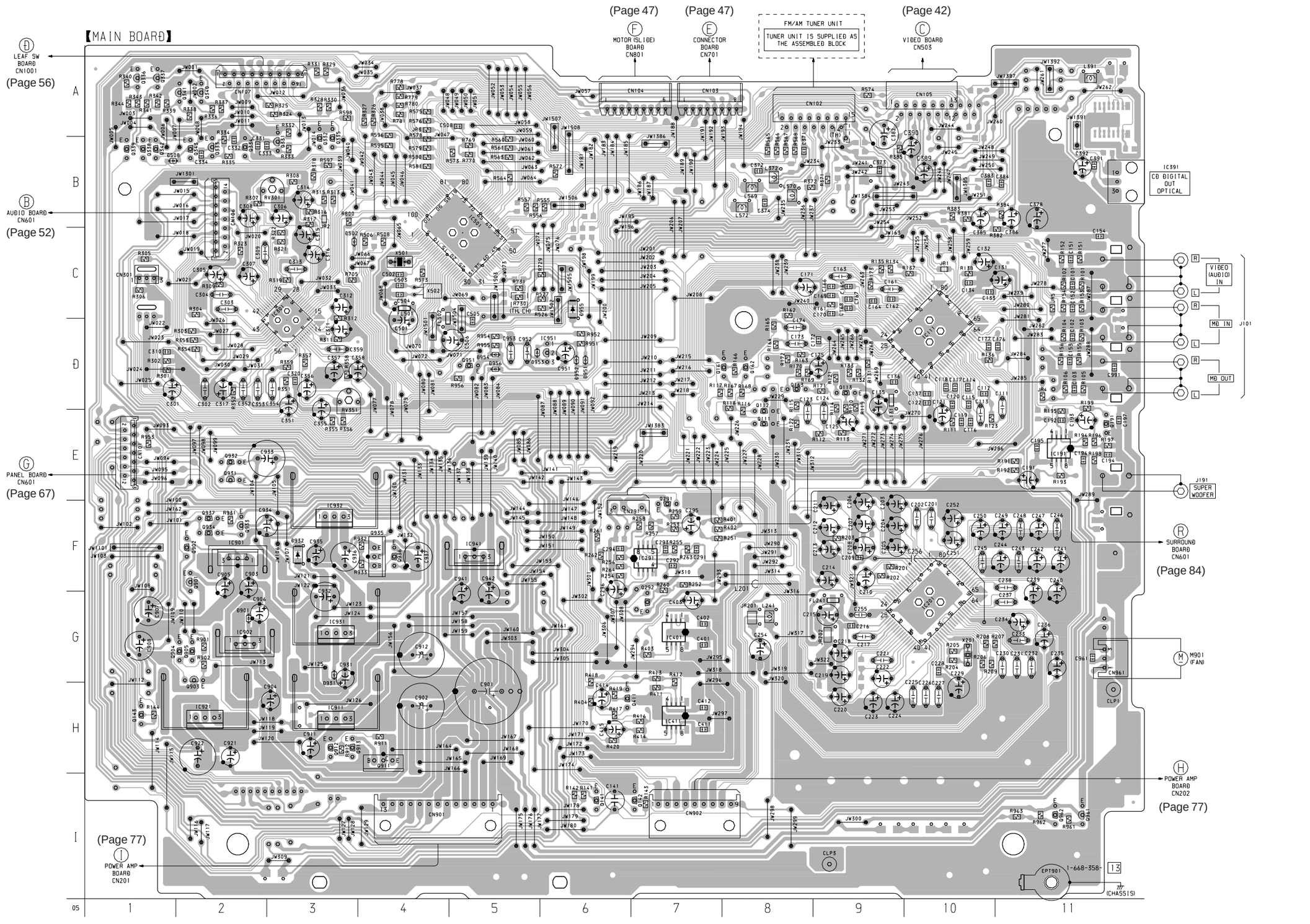
7-18. SCHEMATIC DIAGRAM – LEAF SW Section –



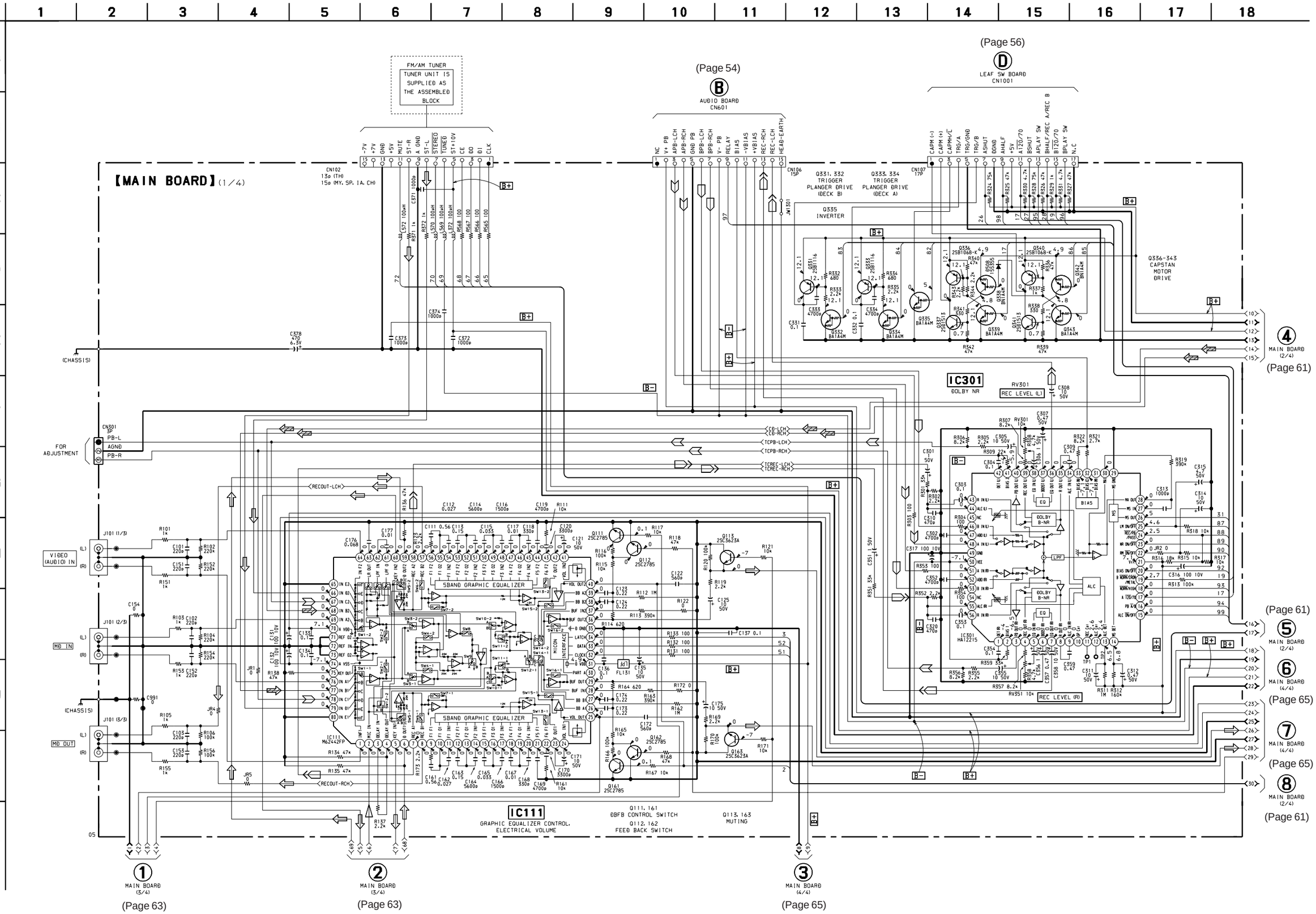
7-19. PRINTED WIRING BOARD – MAIN Section – • See page 35 for Circuit Boards Location.

- **Semiconductor Location**

Ref. No.	Location
D502	C-3
D508	B-1
D901	G-2
D931	G-3
D932	F-3
D951	D-6
D952	D-6
D953	D-5
D954	D-5
D955	C-6
D956	D-5
IC111	D-10
IC191	E-11
IC201	G-10
IC291	F-7
IC301	D-3
IC391	B-11
IC401	G-7
IC411	H-7
IC501	C-5
IC901	F-2
IC902	G-2
IC911	H-3
IC921	H-2
IC931	G-3
IC932	F-3
IC941	F-5
IC951	D-6
Q111	E-8
Q112	E-8
Q113	D-9
Q141	I-6
Q142	I-7
Q143	H-1
Q161	D-8
Q162	D-8
Q163	D-8
Q191	E-11
Q291	F-7
Q292	G-7
Q331	B-3
Q332	B-3
Q333	B-2
Q334	B-2
Q335	B-3
Q336	A-1
Q337	A-1
Q338	B-1
Q339	B-1
Q340	A-2
Q341	A-2
Q342	B-1
Q343	B-2
Q411	H-6
Q901	F-2
Q902	F-2
Q903	H-2
Q904	G-2
Q905	G-2
Q911	H-4
Q912	H-3
Q913	H-3
Q931	E-2
Q932	E-2
Q933	F-2
Q934	F-2
Q935	F-4
Q936	F-4
Q937	F-2
Q951	D-5
Q961	I-11
Q962	I-11

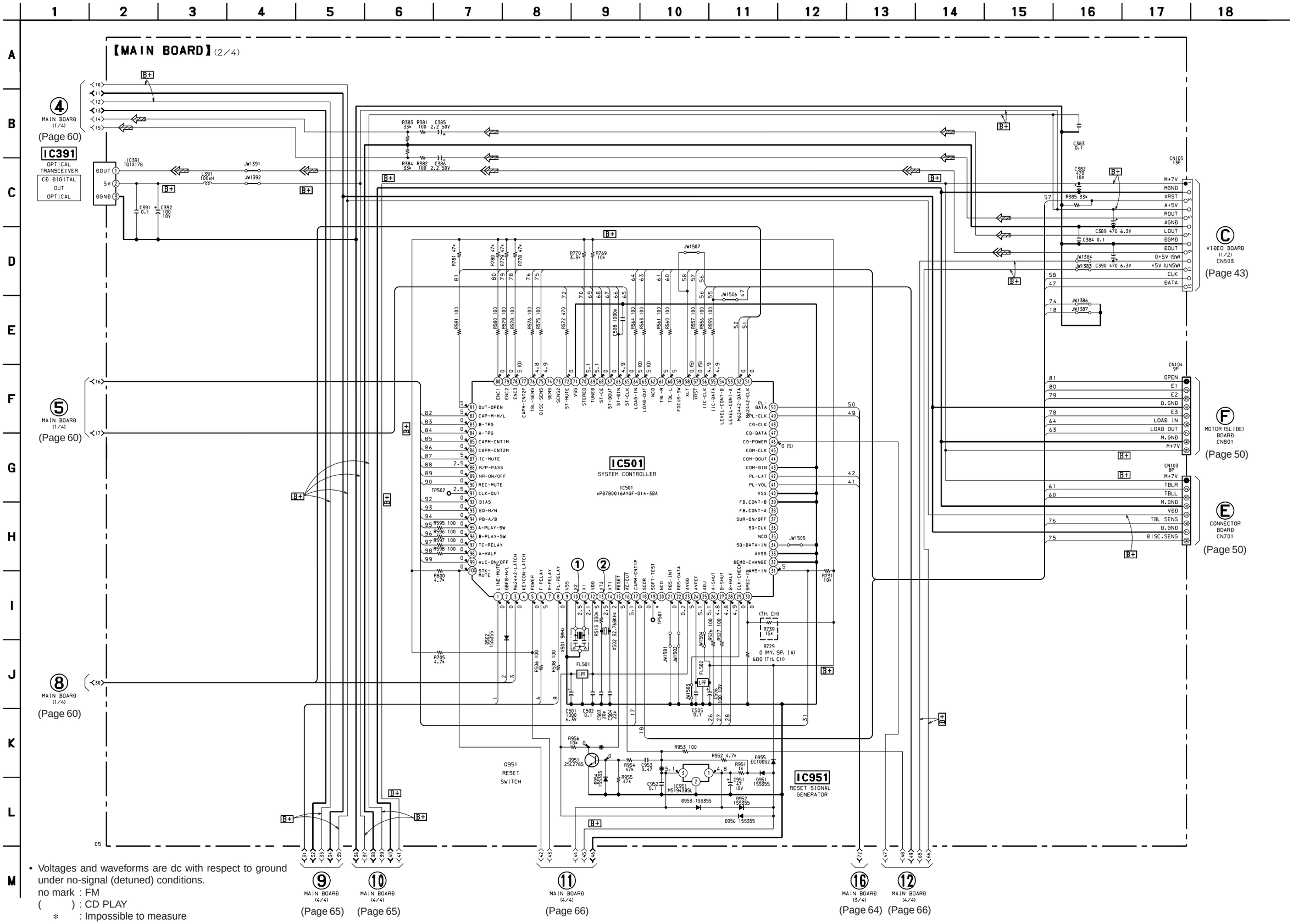


7-20. SCHEMATIC DIAGRAM – MAIN Section (1/4) –



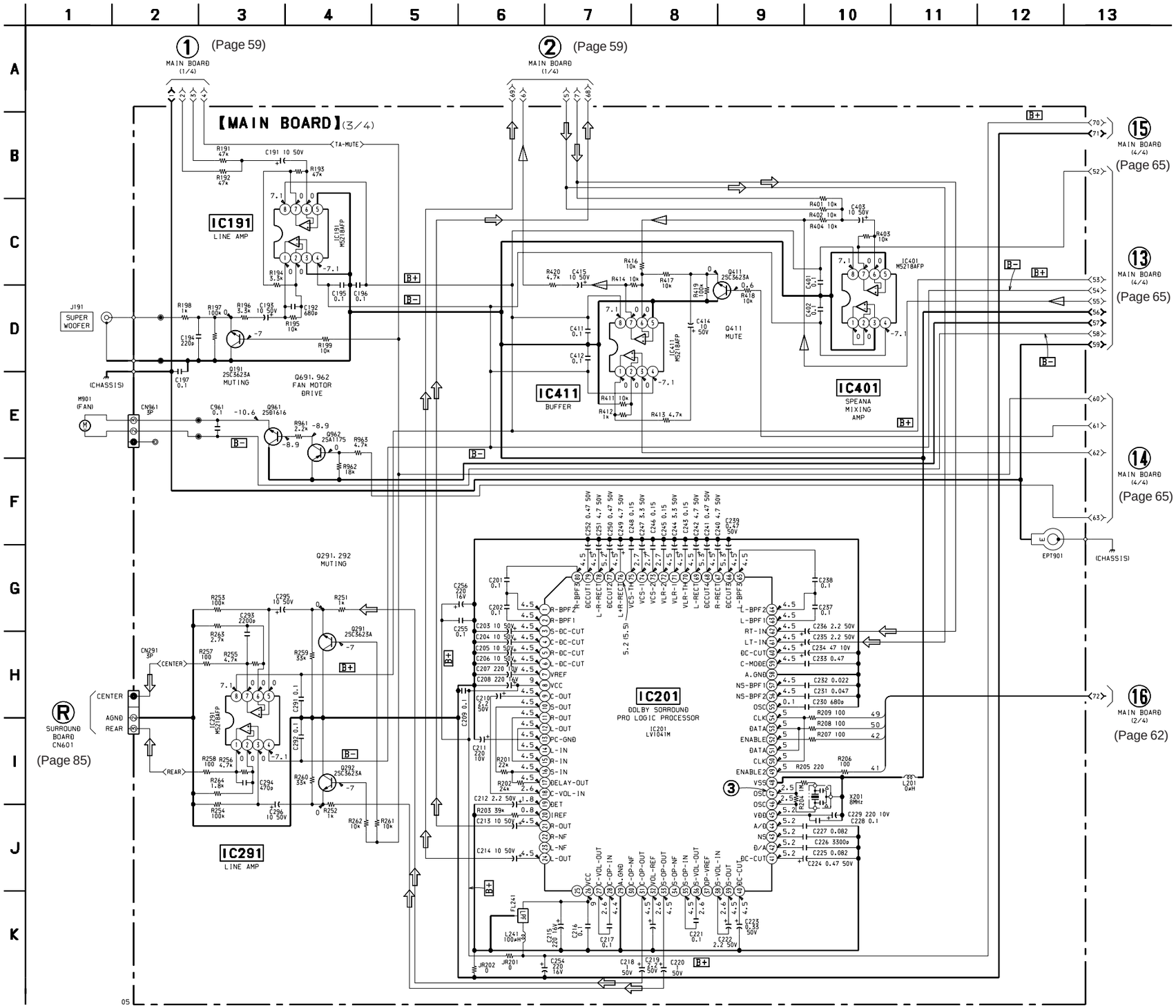
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM

7-21. SCHEMATIC DIAGRAM – MAIN Section (2/4) – • See page 88 for Waveforms.



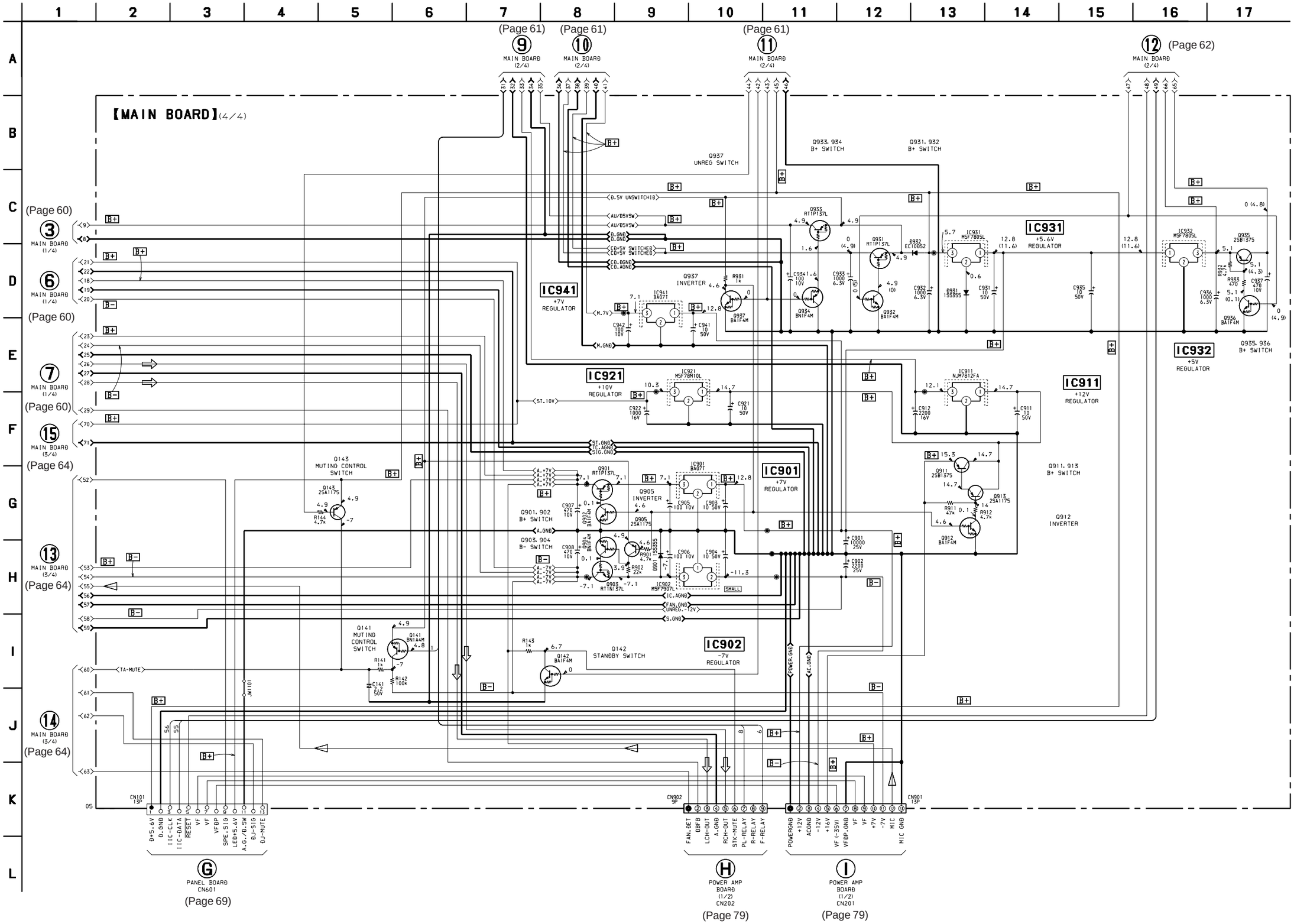
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : CD PLAY
  ∗ : Impossible to measure

7-22. SCHEMATIC DIAGRAM – MAIN Section (3/4) – • See page 93 for IC Block Diagrams.



• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM

7-23. SCHEMATIC DIAGRAM – MAIN Section (4/4) –



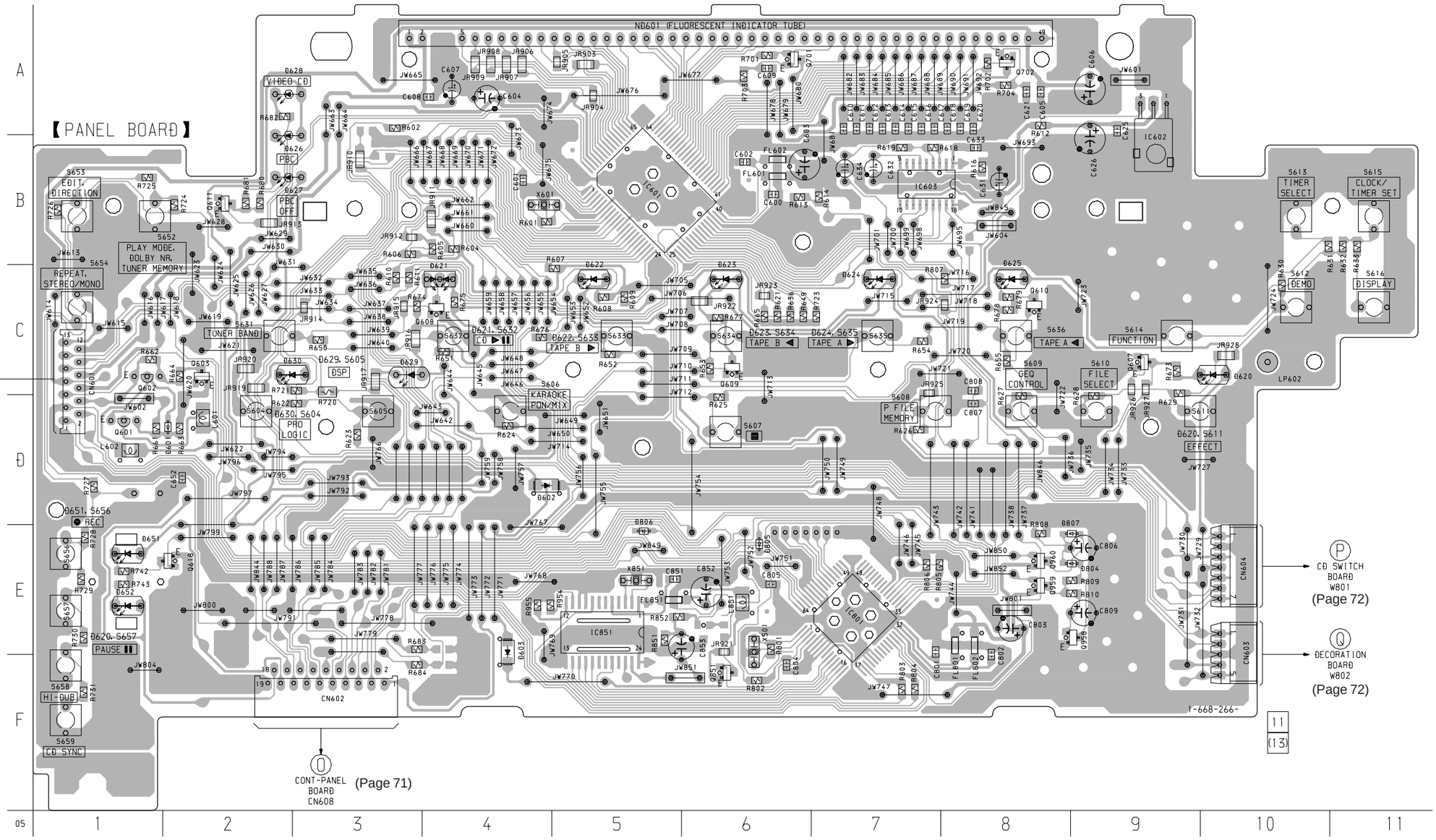
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : CD PLAY
  ∗ : Impossible to measure

7-24. PRINTED WIRING BOARD – PANEL Section –

• See page 35 for Circuit Boards Location.

• **Semiconductor Location**

Ref. No.	Location
D601	D-2
D602	D-4
D603	E-4
D620	C-10
D621	C-4
D622	C-5
D623	C-6
D624	C-7
D625	C-8
D626	A-2
D627	B-2
D628	A-2
D629	C-3
D630	C-2
D651	E-1
D652	E-1
D804	E-9
D805	E-6
D806	E-5
D807	E-9
IC601	B-5
IC602	A-9
IC603	B-7
IC801	E-7
IC851	E-5
Q601	D-1
Q602	C-1
Q603	C-2
Q607	C-9
Q608	C-4
Q609	C-6
Q610	C-8
Q611	B-2
Q618	E-2
Q701	A-6
Q702	A-8
Q851	F-6
Q958	E-9
Q959	E-8
Q960	E-8



7-25. SCHEMATIC DIAGRAM – PANEL Section –

• See page 89 for Waveforms. • See page 92 for IC Block Diagrams.

• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM
* : Impossible to measure

【PANEL BOARD】

ND601
FLUORESCENT INDICATOR TUBE

IC601
FLUORESCENT INDICATOR TUBE DRIVE. LED DRIVE. KEY CONTROL
IC601
TMP87CM74AF-6731

IC602
REMOTE CONTROL RECEIVER
IC602
GP1U27XB

IC603
BAND-PASS FILTER
IC603
BA5855FP

IC801
CSV CONTROL. LED DRIVE. KEY CONTROL
IC801
TMP87CH48DF-4825

IC851
CSV
IC851
M5M66853A-05-K

Q701
GRID DRIVE
25C552EF

Q702
GRID DRIVE
25C3052EF

Q601, 602
B+ SWITCH
25B1116

Q603
INVERTER
25C5052

Q618
LED DRIVE

Q607-611
LED DRIVE

Q851
DJ MUTE CONTROL SWITCH

Q958
TIME CONSTANT SWITCH

Q959, 960
SPEANA MUTE SWITCH

CN601 15P
MAIN BOARD (4/4) CN101 (Page 65)
D+5V
D.GND
CLOCK
DATA
RESET
VF
VF
VFDP
SPEANA
LED5.6V
A.GND
DJ-SIG
DJ-MUTE

CN602 19P
CONT-PANEL BOARD CN608 (Page 74)

CN604 7P
CD SWITCH BOARD W801 (Page 73)

CN603 5P
DECORATION BOARD W802 (Page 73)

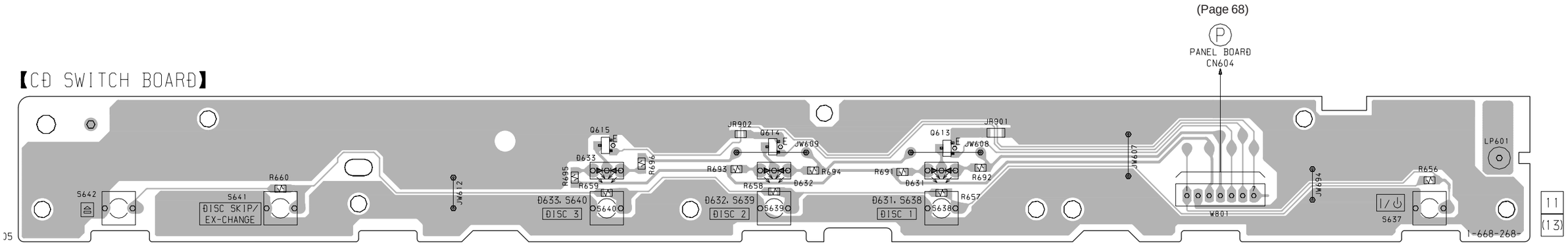
CD SYNC | PAUSE | REC | REPEAT. STEREO/MONO | EDIT. DIRECTION | PLAY MODE. DOLBY NR. TUNER MEMORY | TAPE A | TAPE B | VIDEO CD | PRO LOGIC | HI-DUB | PBC | EFFECT | CD

TUNER/BAND | CD | TAPE B | TAPE B | TAPE A | TAPE A

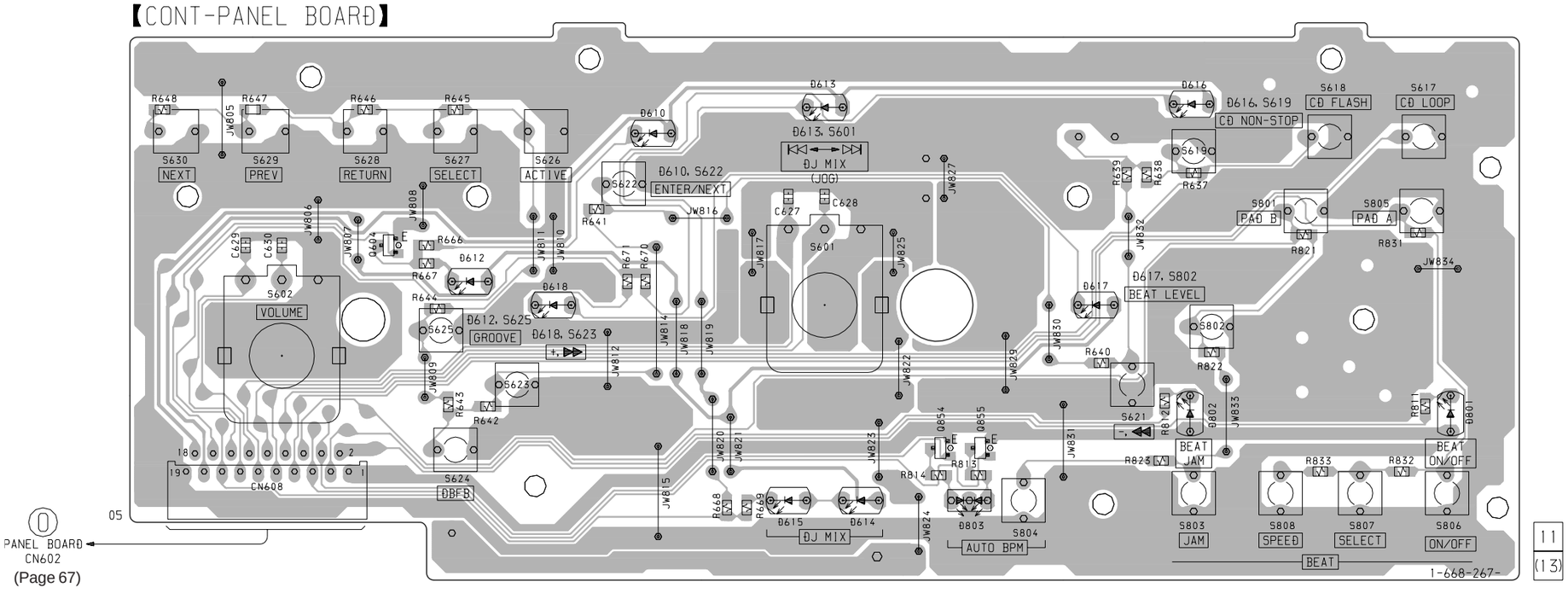
PRO LOGIC | DSP | KARAOKE PON/MPX | P FILE MEMORY | GEQ CONTROL | FILE SELECT | EFFECT | DEMO | TIMER SELECT | FUNCTION | DISPLAY | CLOCK/ TIMER SET

7-26. PRINTED WIRING BOARDS – DISPLAY Section – • See page 35 for Circuit Boards Location.

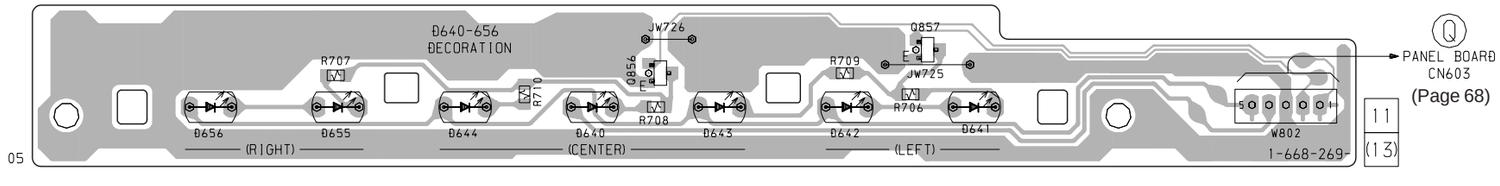
【CD SWITCH BOARD】



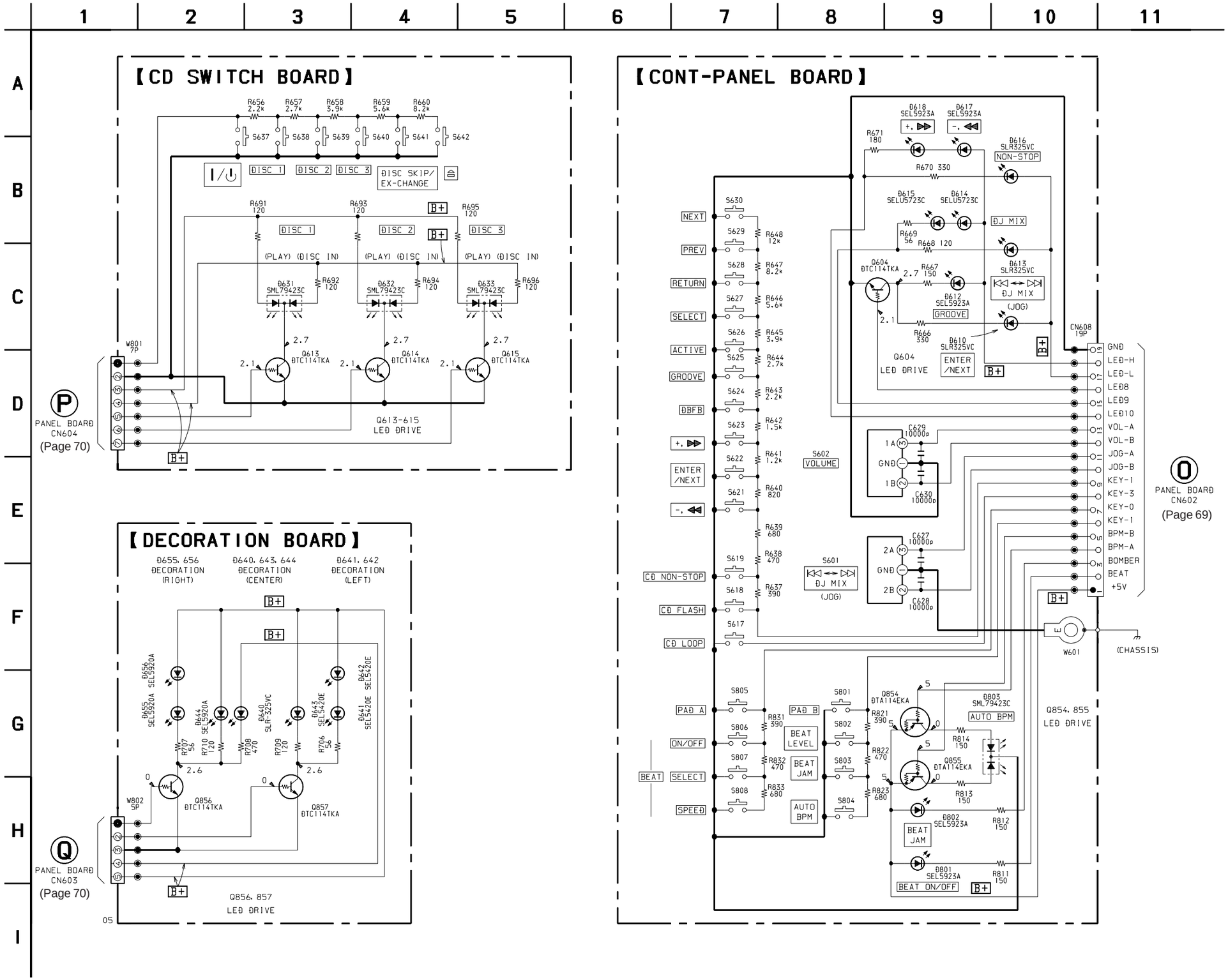
【CONT-PANEL BOARD】



【DECORATION BOARD】



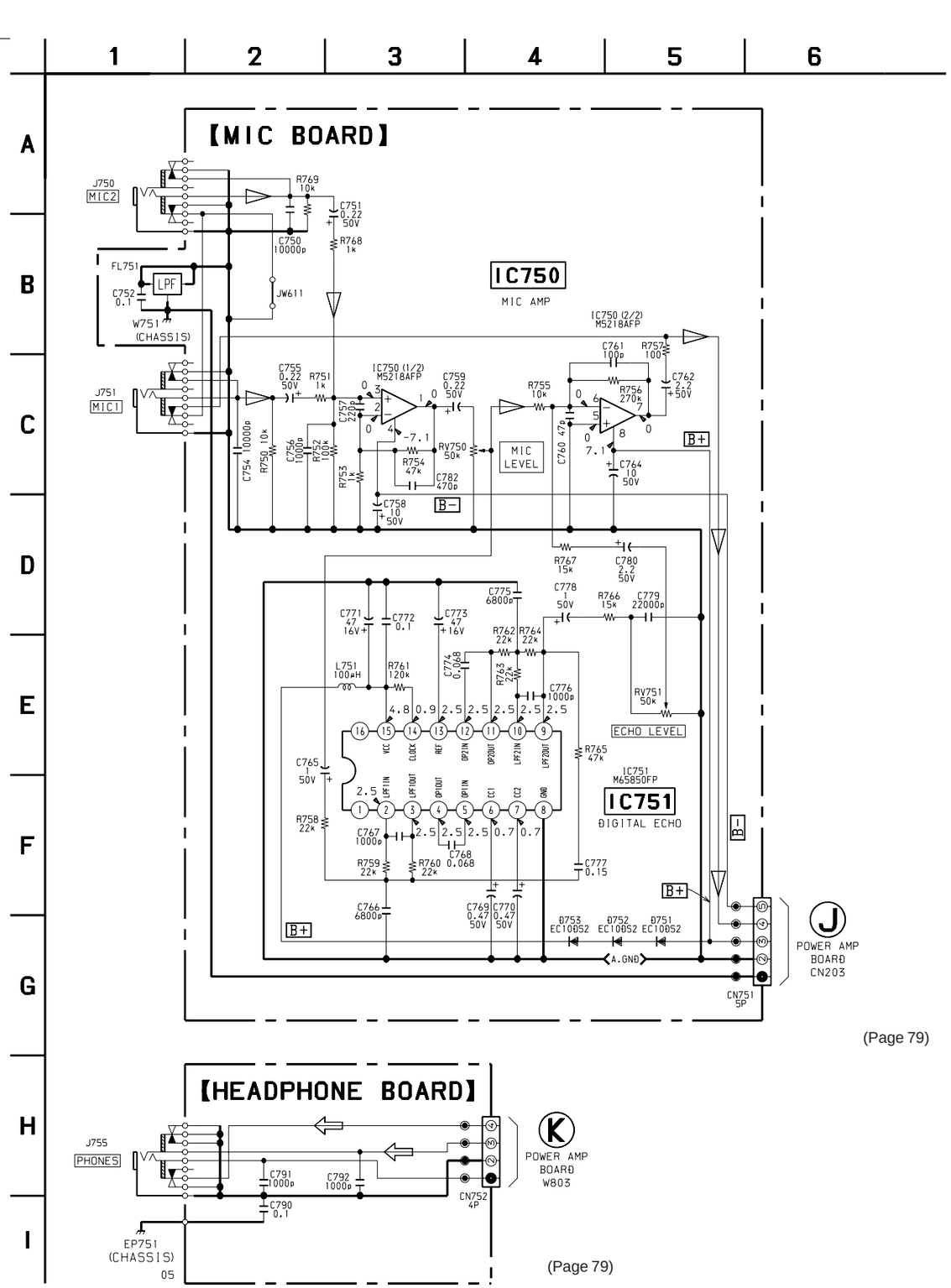
7-27. SCHEMATIC DIAGRAM – DISPLAY Section –



• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM

7-28. SCHEMATIC DIAGRAM – MIC/HEADPHONE Section –

• See page 92 for IC Block Diagrams.

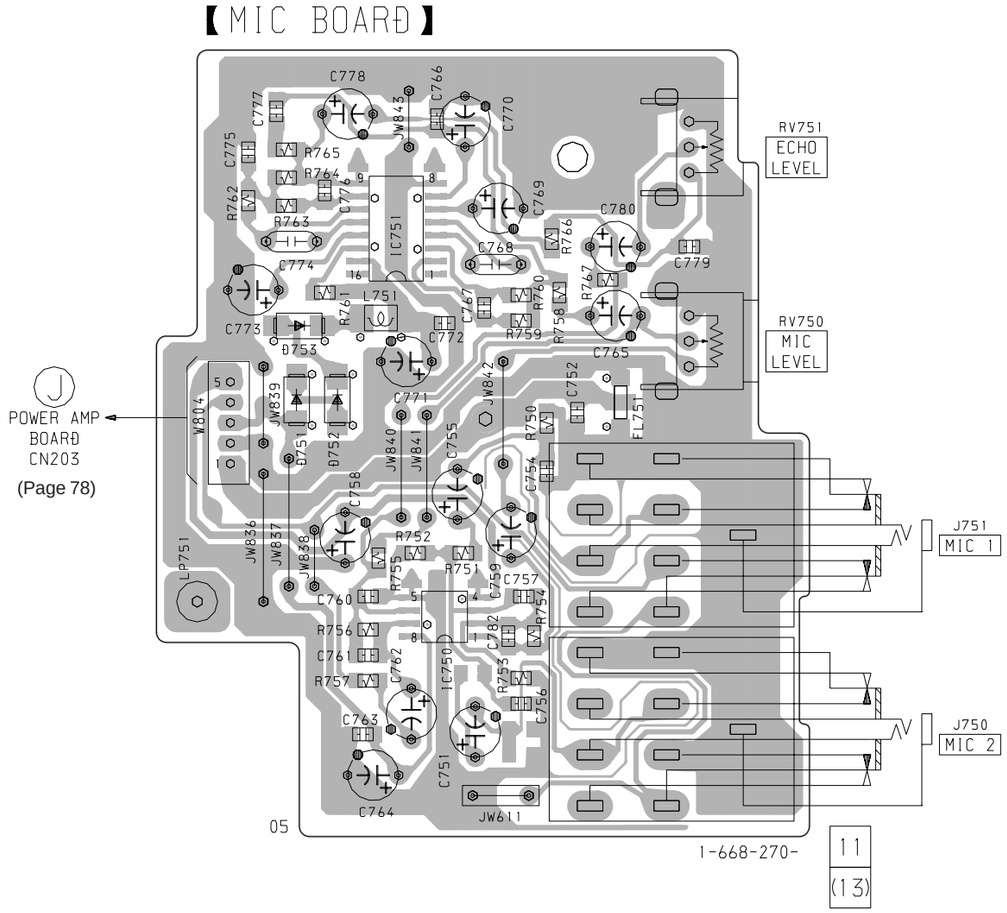


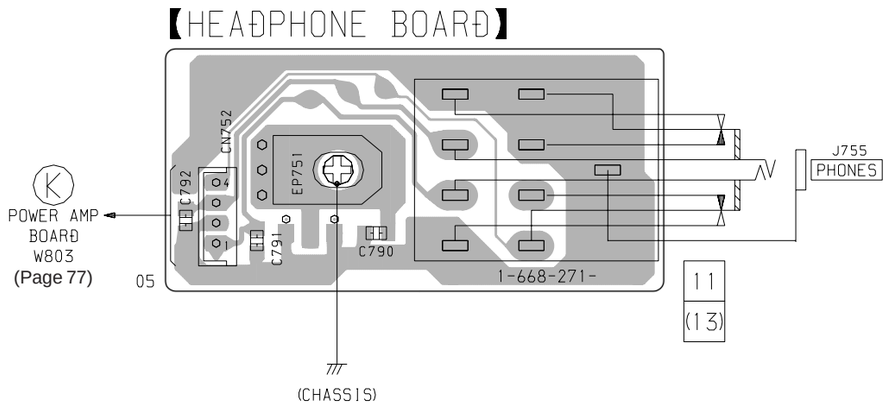
HCĐ-V919AV MIC/HP

• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM

7-29. PRINTED WIRING BOARDS – MIC/HEADPHONE Section –

• See page 35 for Circuit Boards Location.

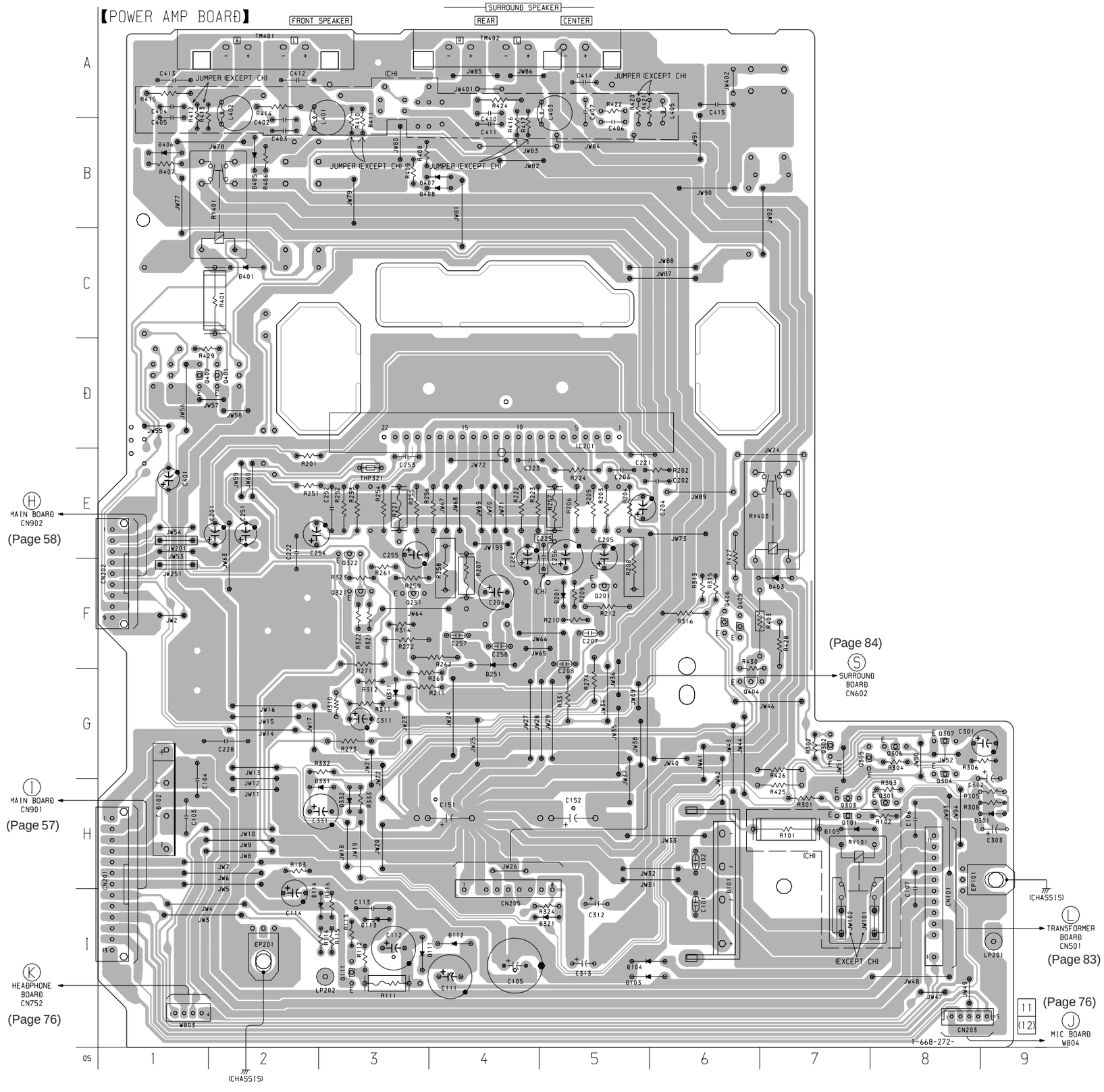




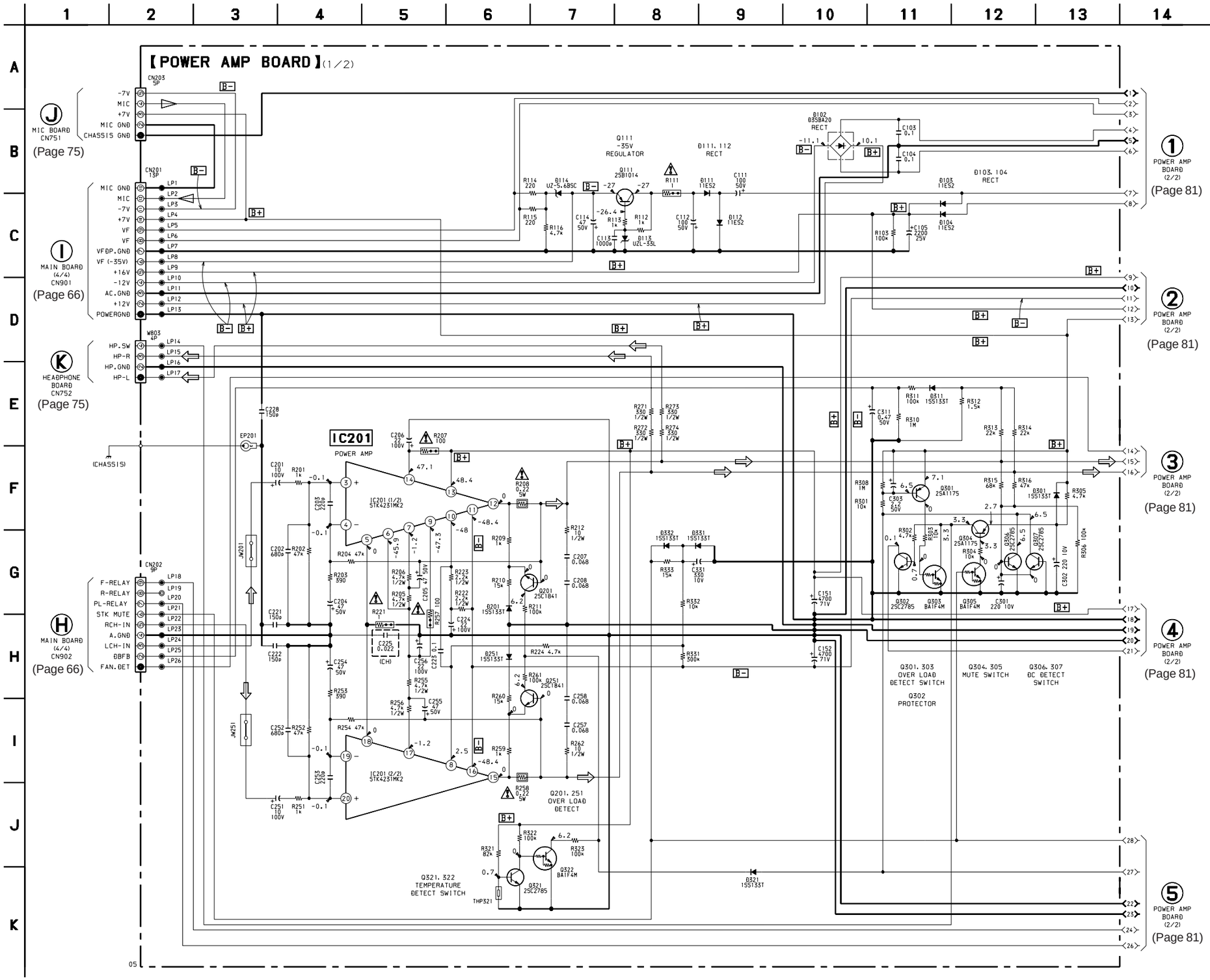
7-30. PRINTED WIRING BOARD – POWER AMP Section – • See page 35 for Circuit Boards Location.

- **Semiconductor Location**

Ref. No.	Location
D101	H-6
D102	H-1
D103	I-5
D104	I-5
D105	H-7
D111	I-3
D112	I-4
D113	I-3
D114	I-3
D201	F-5
D251	F-4
D301	H-9
D311	G-3
D321	I-5
D331	H-3
D332	H-3
D401	C-2
D403	F-7
D405	B-2
D406	B-1
D407	B-4
D408	B-4
IC201	D-5
Q101	H-7
Q111	I-3
Q201	F-5
Q251	F-3
Q301	H-8
Q302	G-7
Q303	H-7
Q304	G-8
Q305	G-7
Q306	G-8
Q307	G-8
Q321	F-3
Q322	E-3
Q401	D-2
Q402	D-1
Q404	G-6
Q405	F-6
Q406	F-6



7-31. SCHEMATIC DIAGRAM – POWER AMP Section –

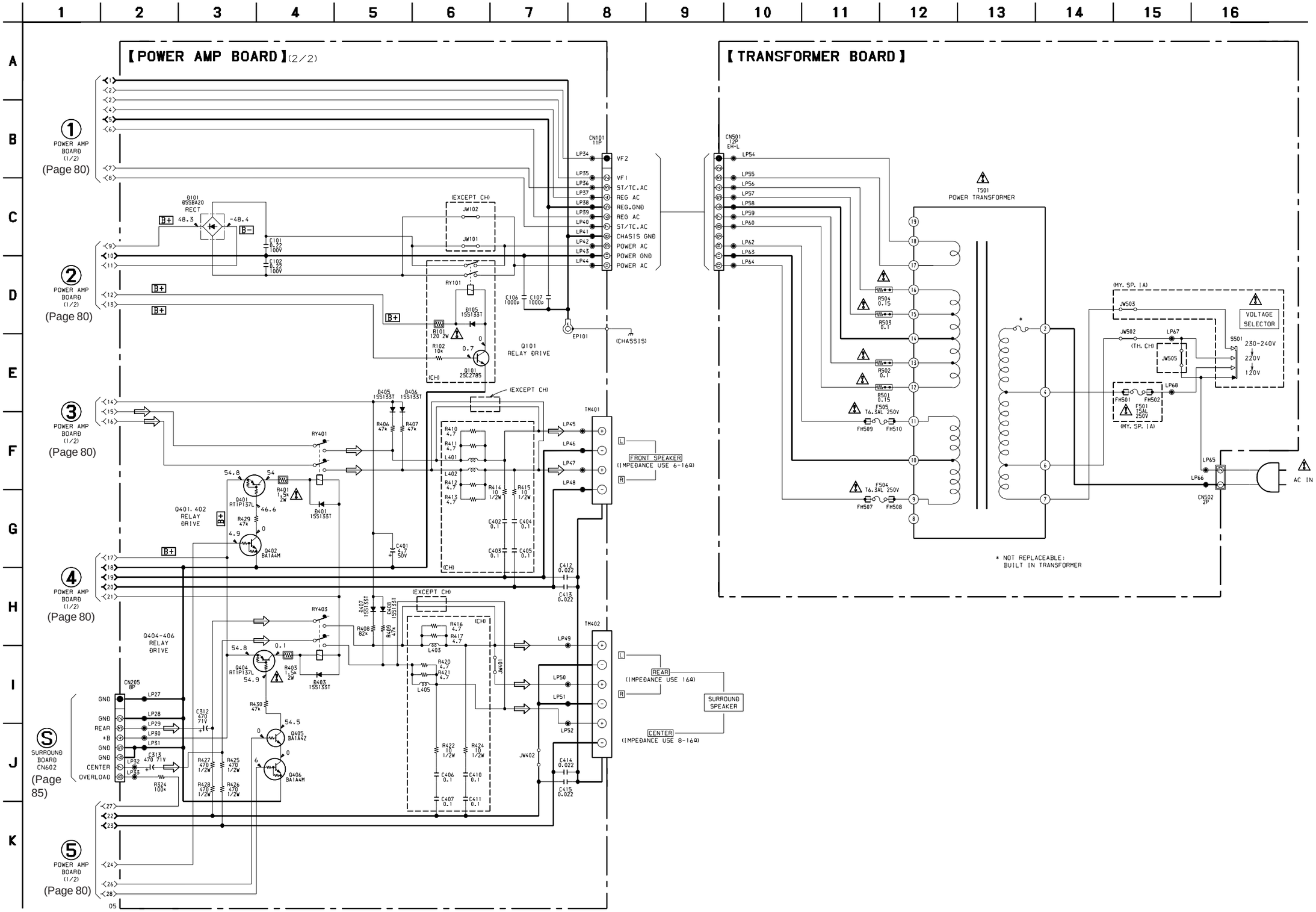

【POWER AMP BOARD】(1/2)
MIC BOARD CN751 (Page 75)
MAIN BOARD (4/4) CN901 (Page 66)
HEADPHONE BOARD CN752 (Page 75)
MAIN BOARD (4/4) CN902 (Page 66)
IC201 POWER AMP
IC201 (1/2) STK4231MK2
IC201 (2/2) STK4231MK2
Q111 -35V REGULATOR
Q201, 251 OVER LOAD DETECT
Q301, 303 OVER LOAD DETECT SWITCH
Q302 PROTECTOR
Q304, 305 MUTE SWITCH
Q306, 307 DC DETECT SWITCH
Q321, 322 TEMPERATURE DETECT SWITCH
D102 D3SBA20 RECT
D111, 112 RECT
D103, 104 RECT
POWER AMP BOARD (2/2) (Page 81)

• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

7-32. SCHEMATIC DIAGRAM – TRANSFORMER Section – • See page 83 for Printed Wiring Board. (POWER BOARD) • See page 83 for Printed Wiring Board. (TRANSFORMER BOARD)



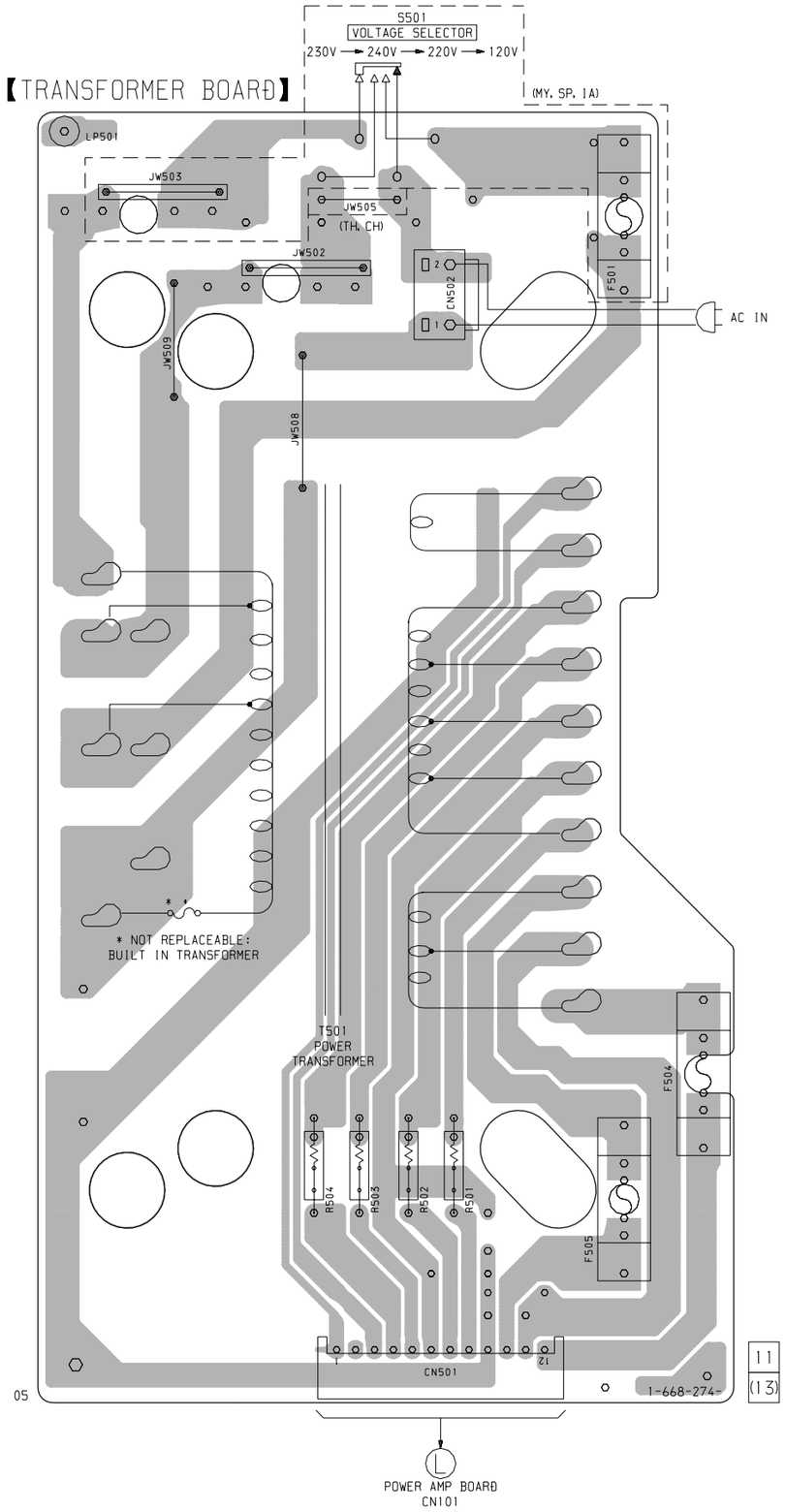
• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

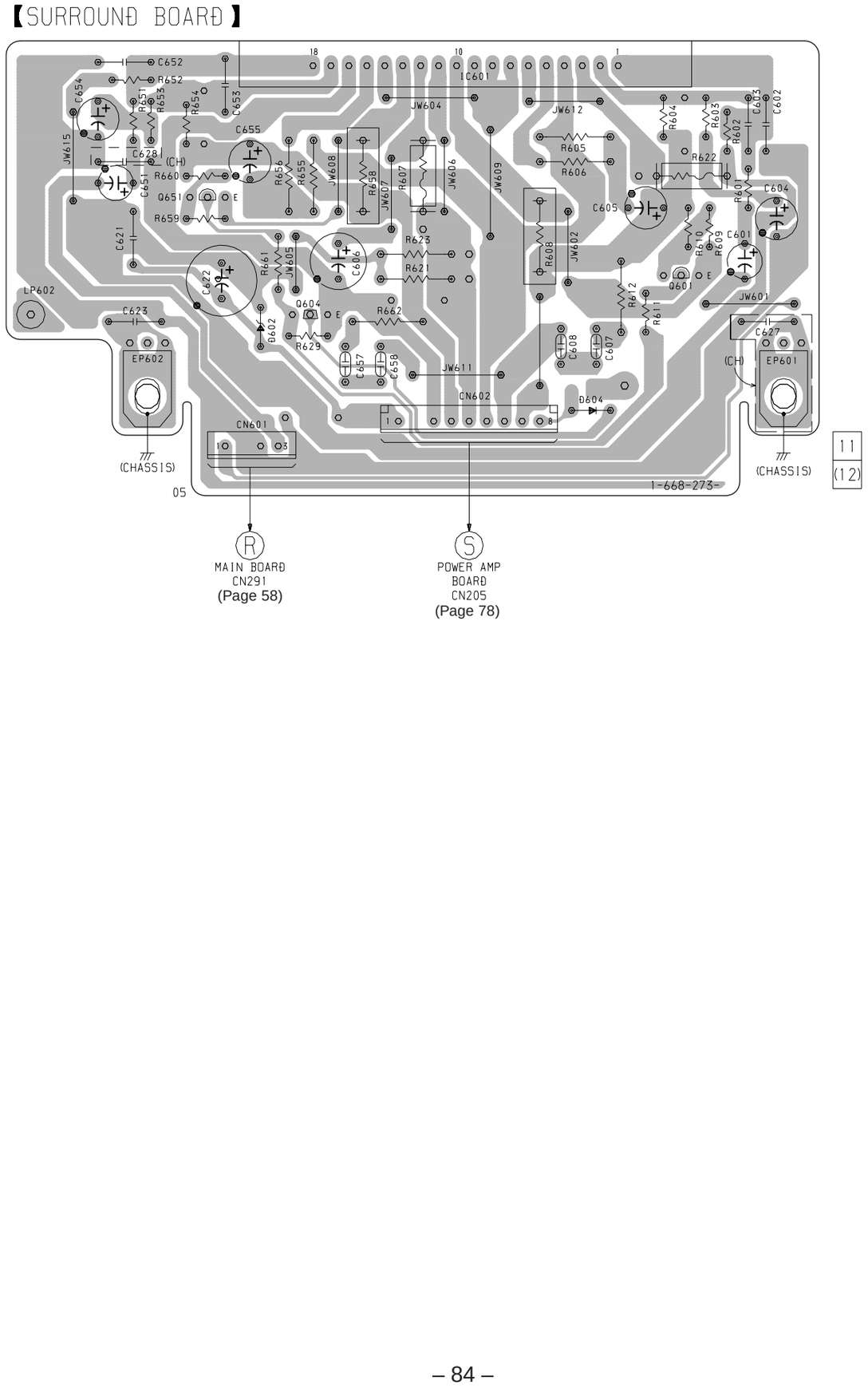
7-33. PRINTED WIRING BOARD – TRANSFORMER Section –

• See page 35 for Circuit Boards Location.

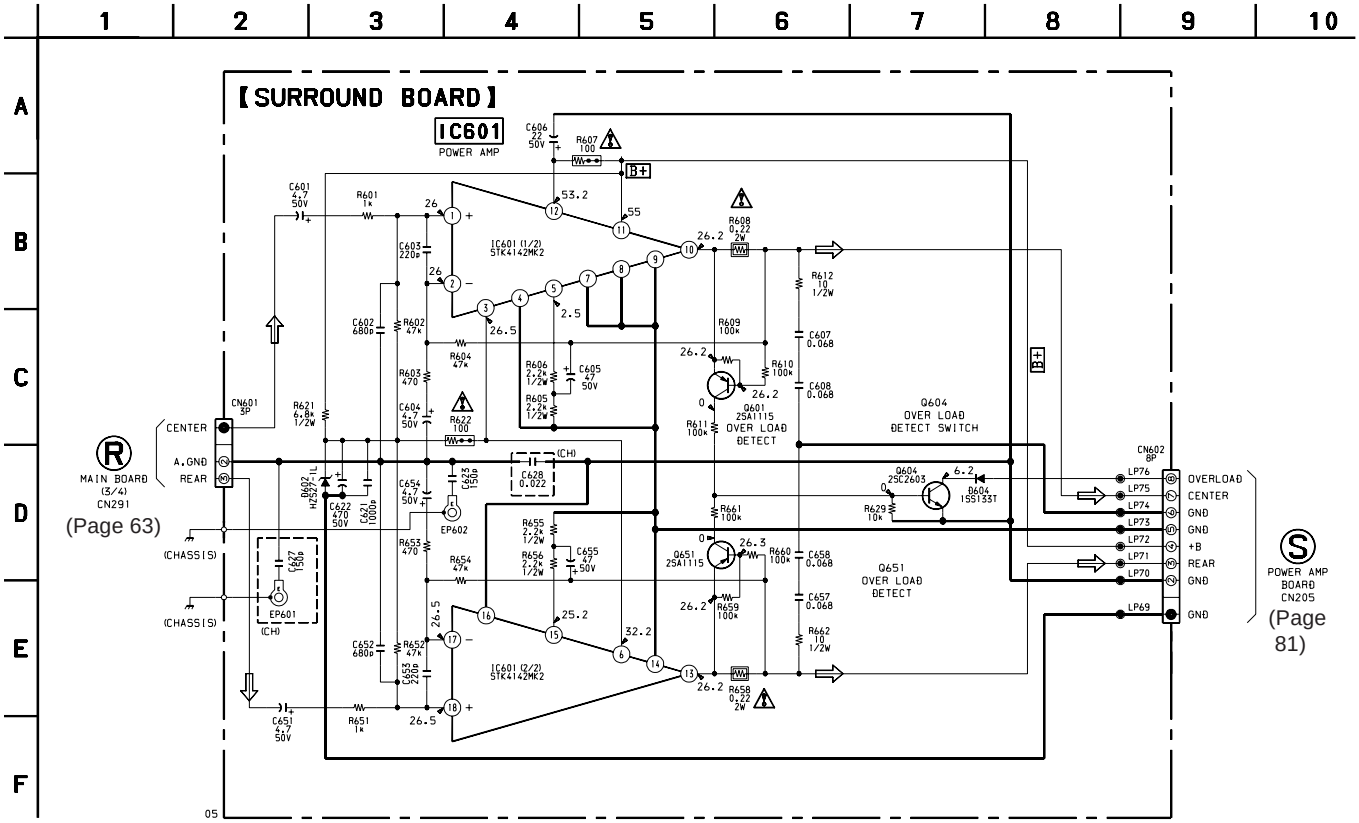


7-34. PRINTED WIRING BOARD – SURROUND Section –

• See page 35 for Circuit Boards Location.



7-35. SCHEMATIC DIAGRAM – SURROUND Section –



• Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
no mark : FM

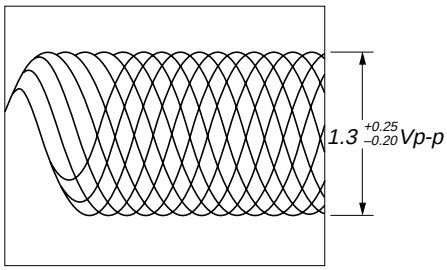
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

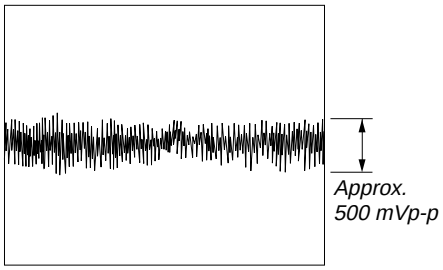
• Waveforms

– BD Board –

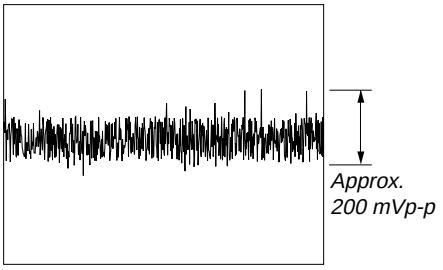
❶ IC101 ㉖ (RFDC)
200 mV/DIV, 500 ns/DIV



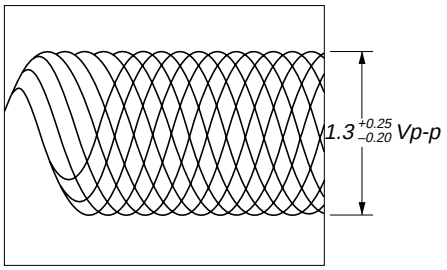
❷ IC101 ㉗ (TE)
200 mV/DIV, 100 µs/DIV



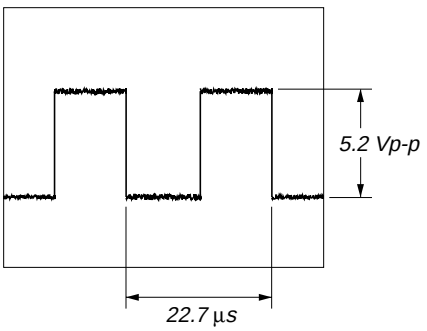
❸ IC101 ㉙ (FE)
200 mV/DIV, 50 ns/DIV



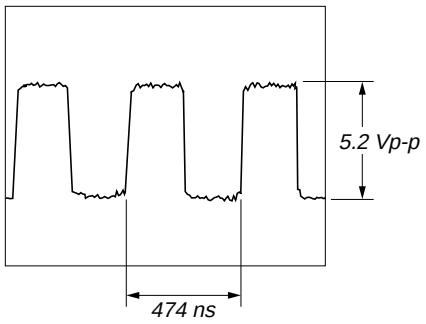
❹ IC101 ㊱ (RFAC)
200 mV/DIV, 500 ns/DIV



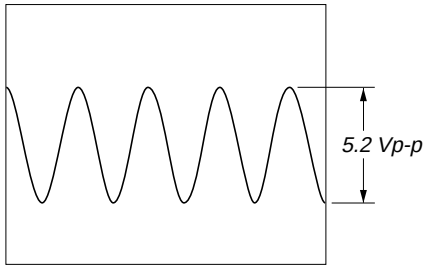
❺ IC101 ㊺ (LRCK)



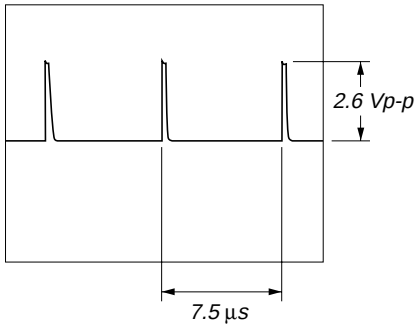
❻ IC101 ㊼ (BCLK)



❼ IC101 ㊷ (XTAI)

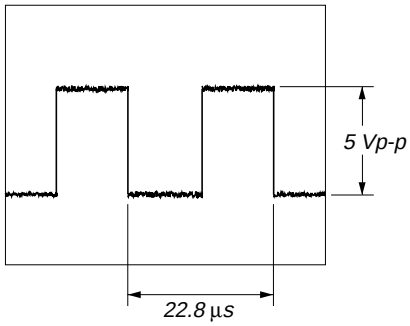


❽ IC101 ㊻ (MDP)

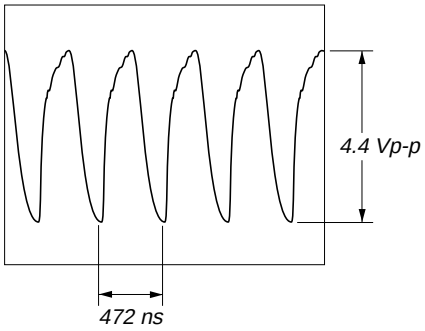


– VIDEO Board –

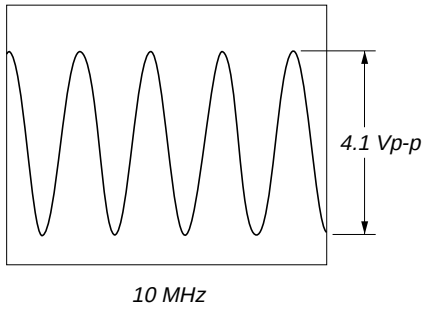
❶ IC501 ⑤ (LRCK)



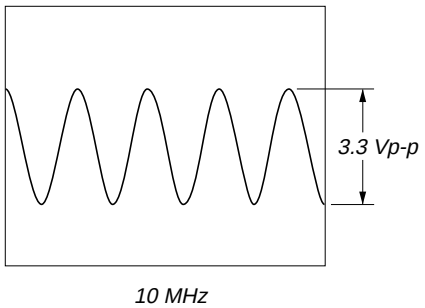
❷ IC501 ⑬ (BCLK)



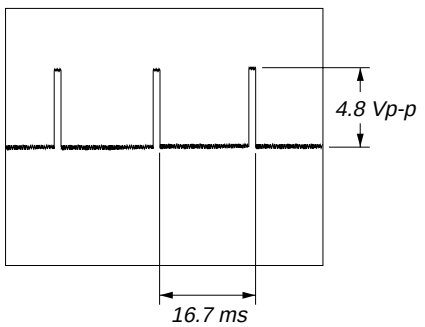
❸ IC502 ⑬ (XOUT)



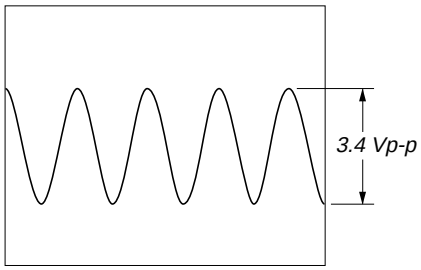
❹ IC502 ⑮ (XIN)



❺ IC502 ㊺ (BUS)

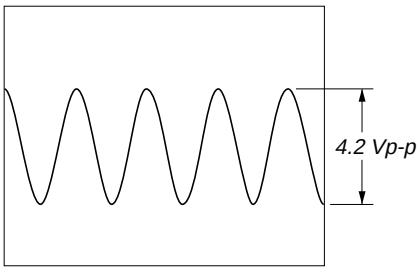


❻ IC402 ⑲ (XIN)



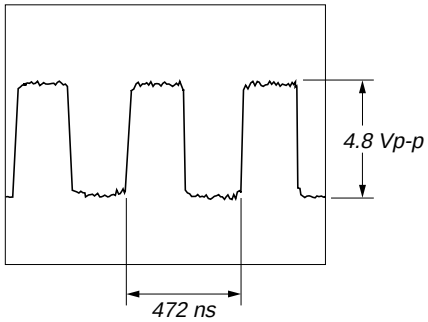
8.1 MHz

❼ IC402 ⑳ (XOUT)

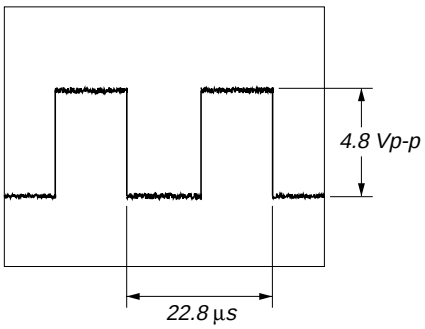


8.1 MHz

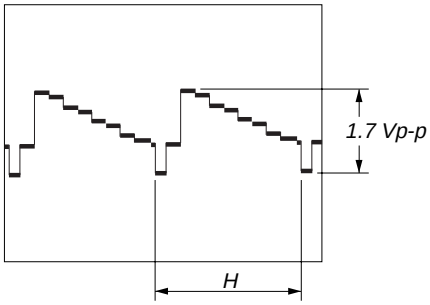
❽ IC505 ③ (CD-BCK)



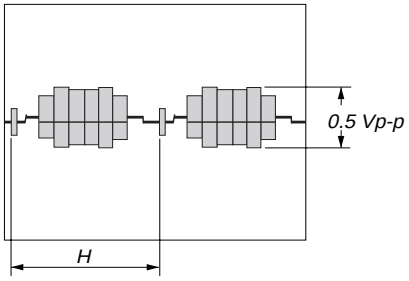
❾ IC505 ⑤ (CD-LRCK)



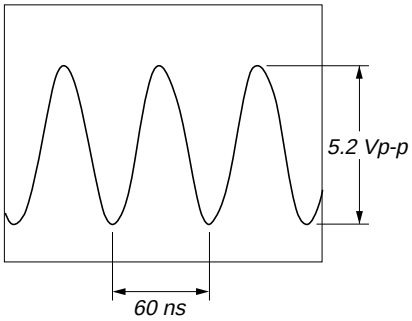
❿ IC505 ⑥⑨ (Y-OUT)



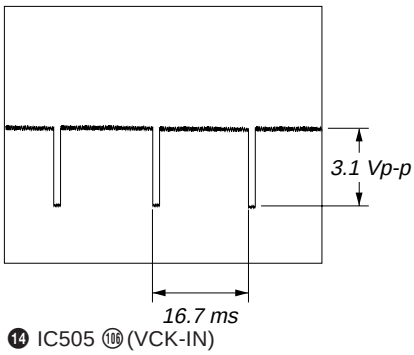
⓫ IC505 ⑦⑤ (C-OUT)



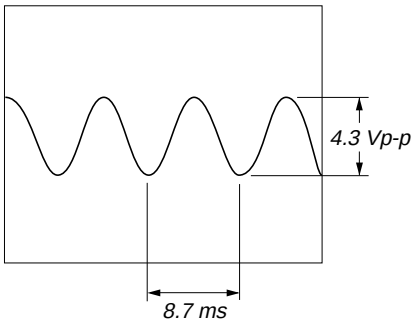
⓬ IC505 ⑧⑥ (DA-XCLK)



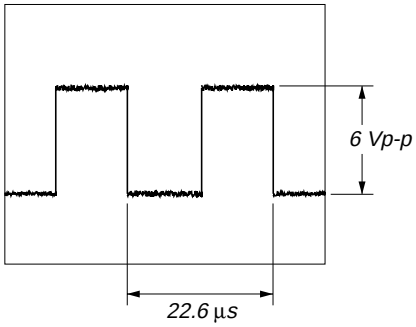
⓭ IC505 ⑨③ (PGIO2/VSYNK/CSYNK)



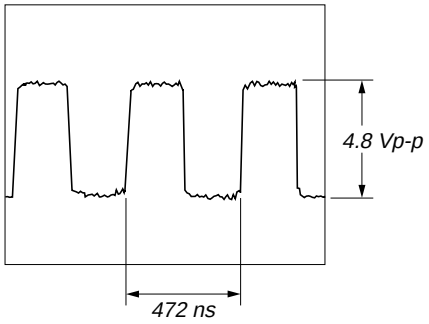
⓮ IC505 ⑩⑥ (VCK-IN)



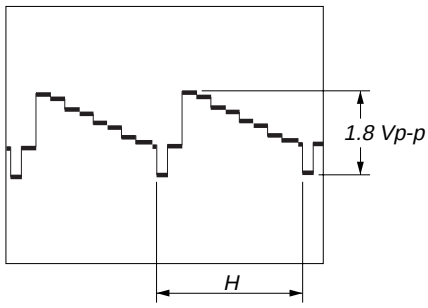
⓯ IC505 ⑩⑧ (DA-LRCK), IC509 ⑲ (LRCK)



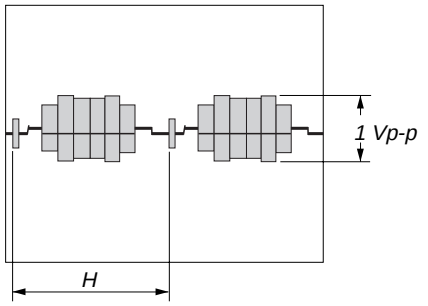
⓰ IC505 ⑪ (DA-BCK), IC509 ⑰ (BCK)



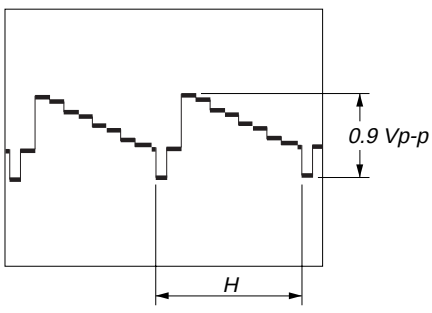
⓱ Q301 (Base)



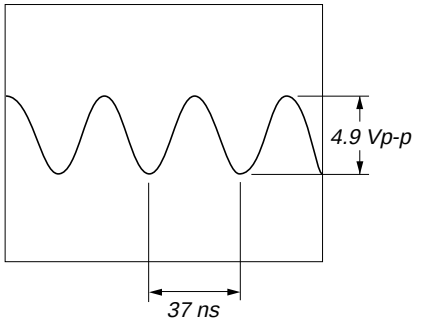
⓲ Q303, 304 (Base)



⓳ Q308 (Base)

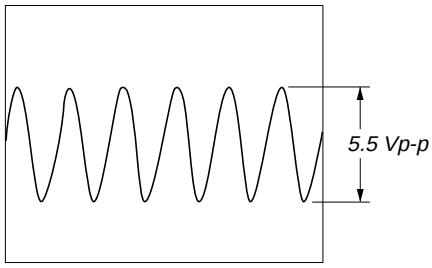


⓴ IC509 ④ (MCKO)



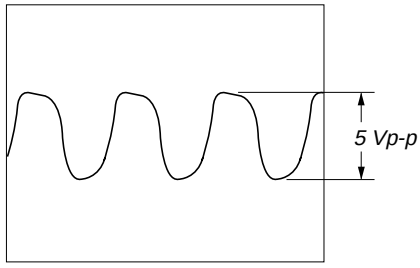
– MAIN Board –

❶ IC501 ⑩ (X2)



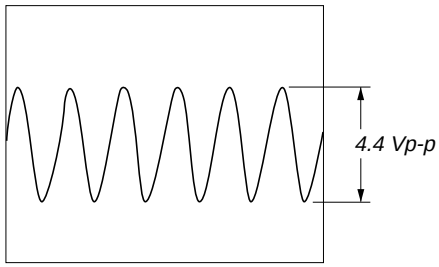
5 MHz

❷ IC501 ⑬ (XT2)



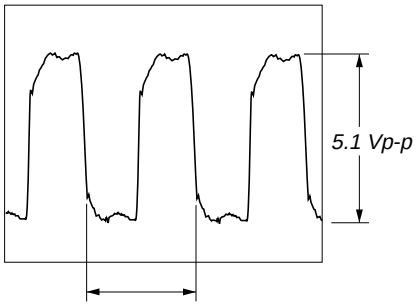
32.768 kHz

❸ IC201 ㊼ (OSC)



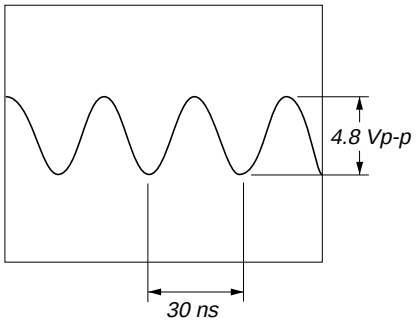
8 MHz

❷❶ IC509 ⑳ (384FSO)



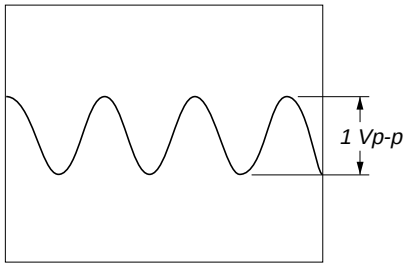
59 ns

❷❷ IC509 ㉑ (768FSO)



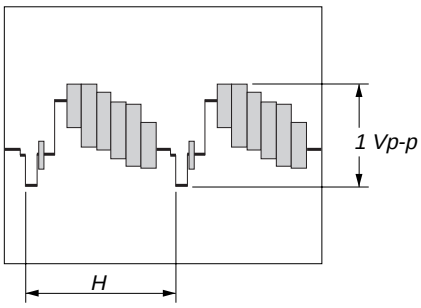
30 ns

❷❸ IC509 ㉔ (XT2)

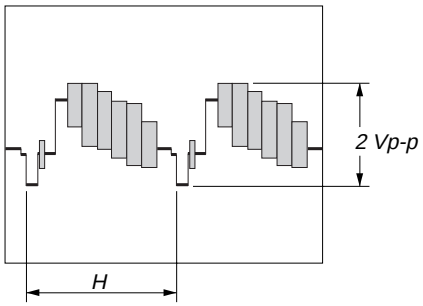


27 MHz

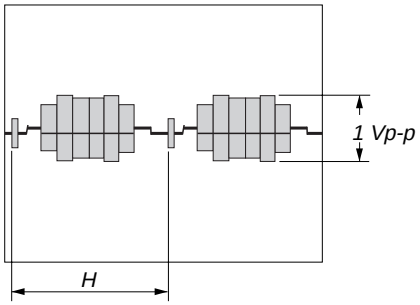
❷❻ IC401 ③



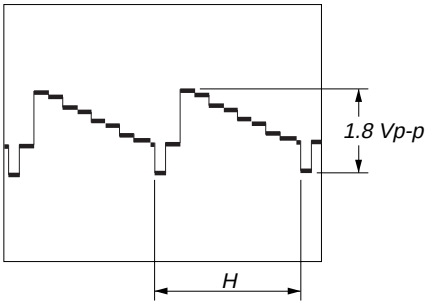
❷❼ IC401 ①



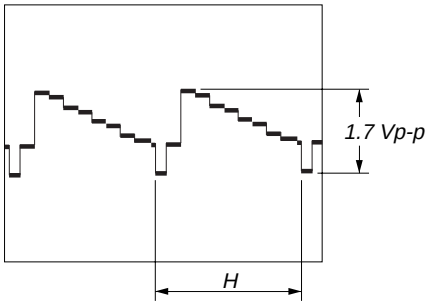
❷❽ J301 ③ (COUT)



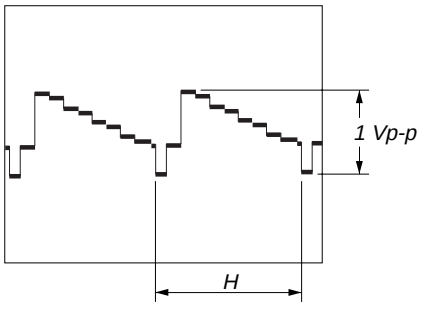
❷❹ IC401 ⑦



❷❾ J301 ④ (YOUT)

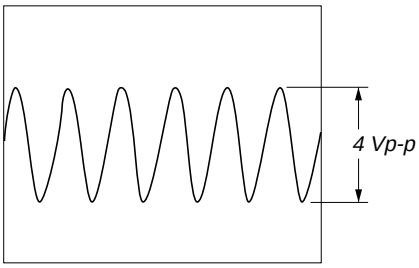


❷❺ IC401 ⑤



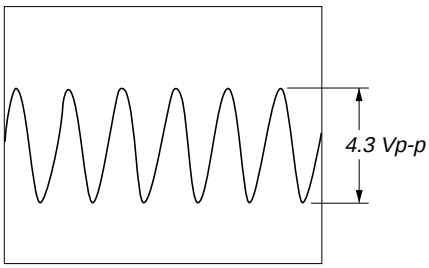
– PANEL Board –

❶ IC601 ⑧ (X-OUT)



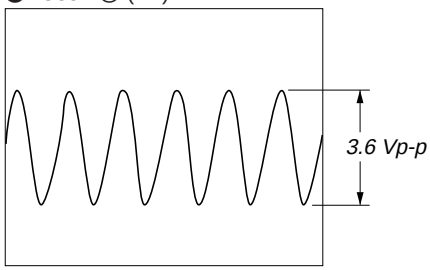
8 MHz

❷ IC801 ② (X-OUT)



8 MHz

❸ IC851 ② (XT)

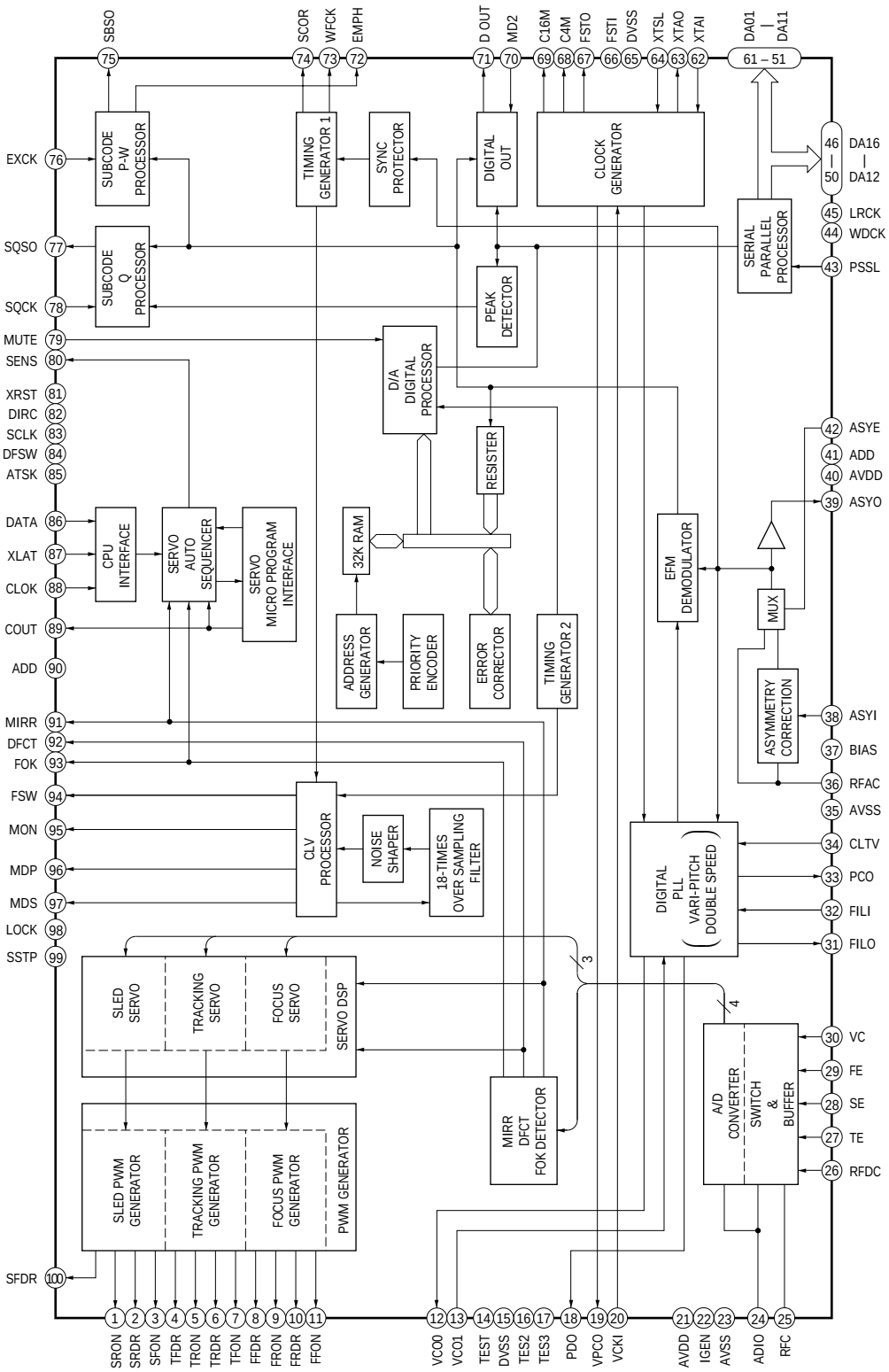


4.09 MHz

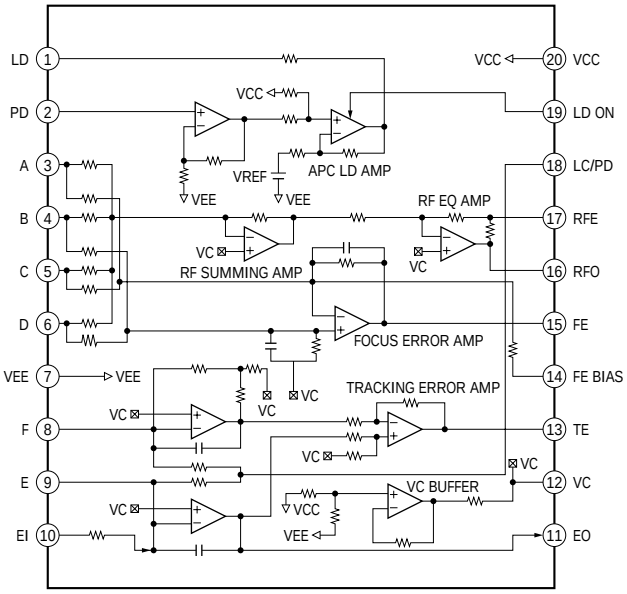
• IC Block Diagrams

– BD Board –

IC101 CXD2545Q

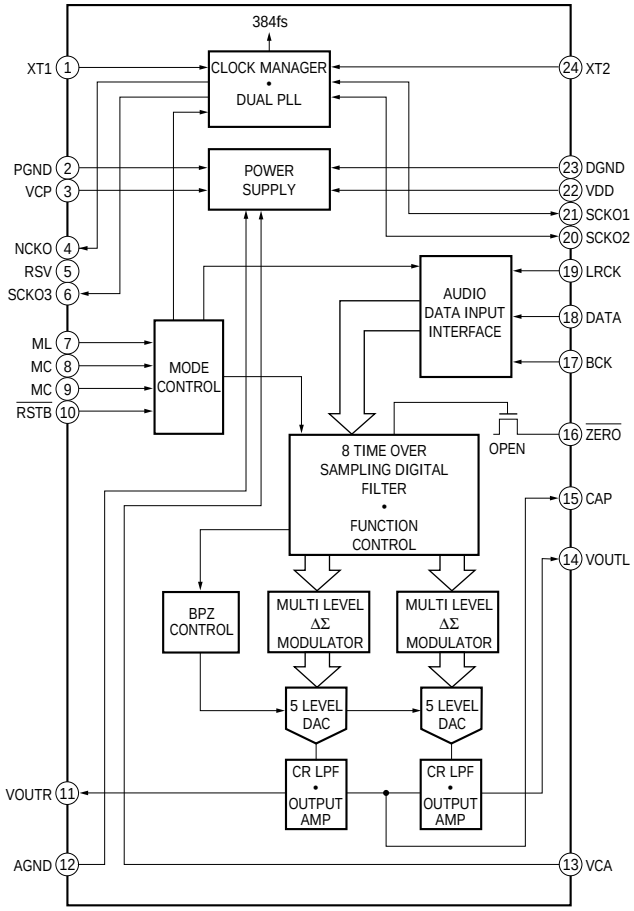


IC103 CXA1821M-T6



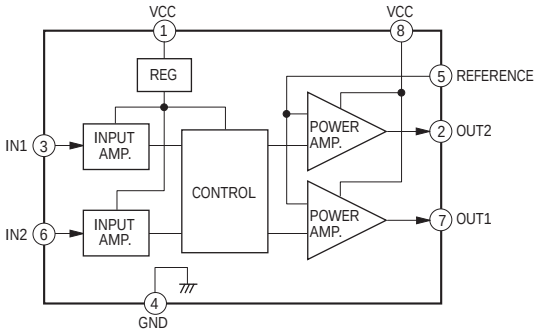
–VIDEO Board –

IC509 PCM1727E-2/T2



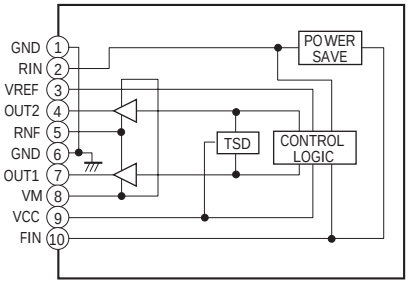
– MOTOR (TURN) Board –

IC701 M54641L



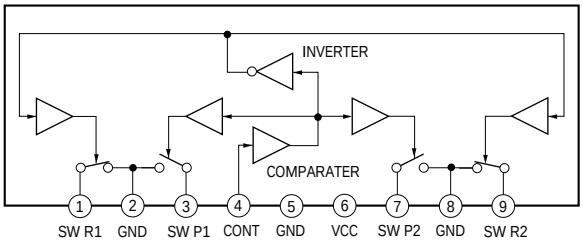
– MOTOR (SLIDE) Board –

IC801 BA6286N



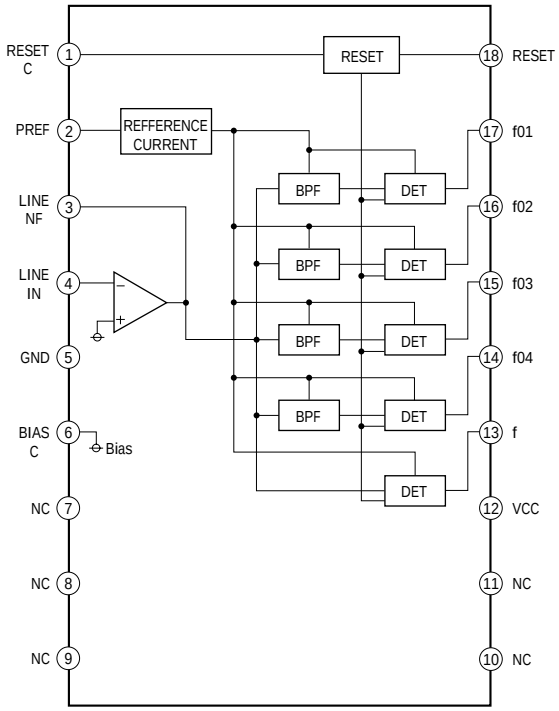
– AUDIO Board –

IC602 µPC1330HA

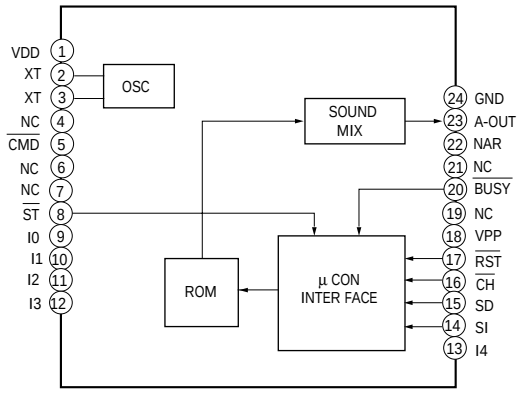


– PANEL Board –

IC603 BA3833F-E2

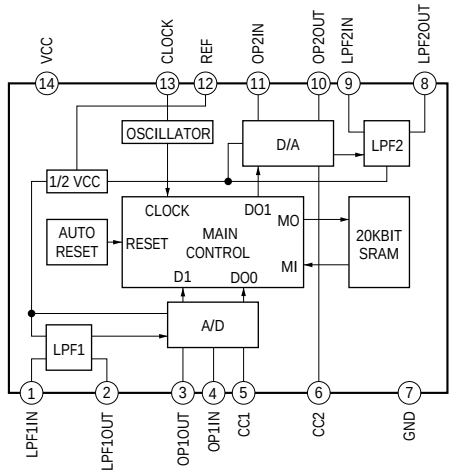


IC851 MSM6653A-517GS-K

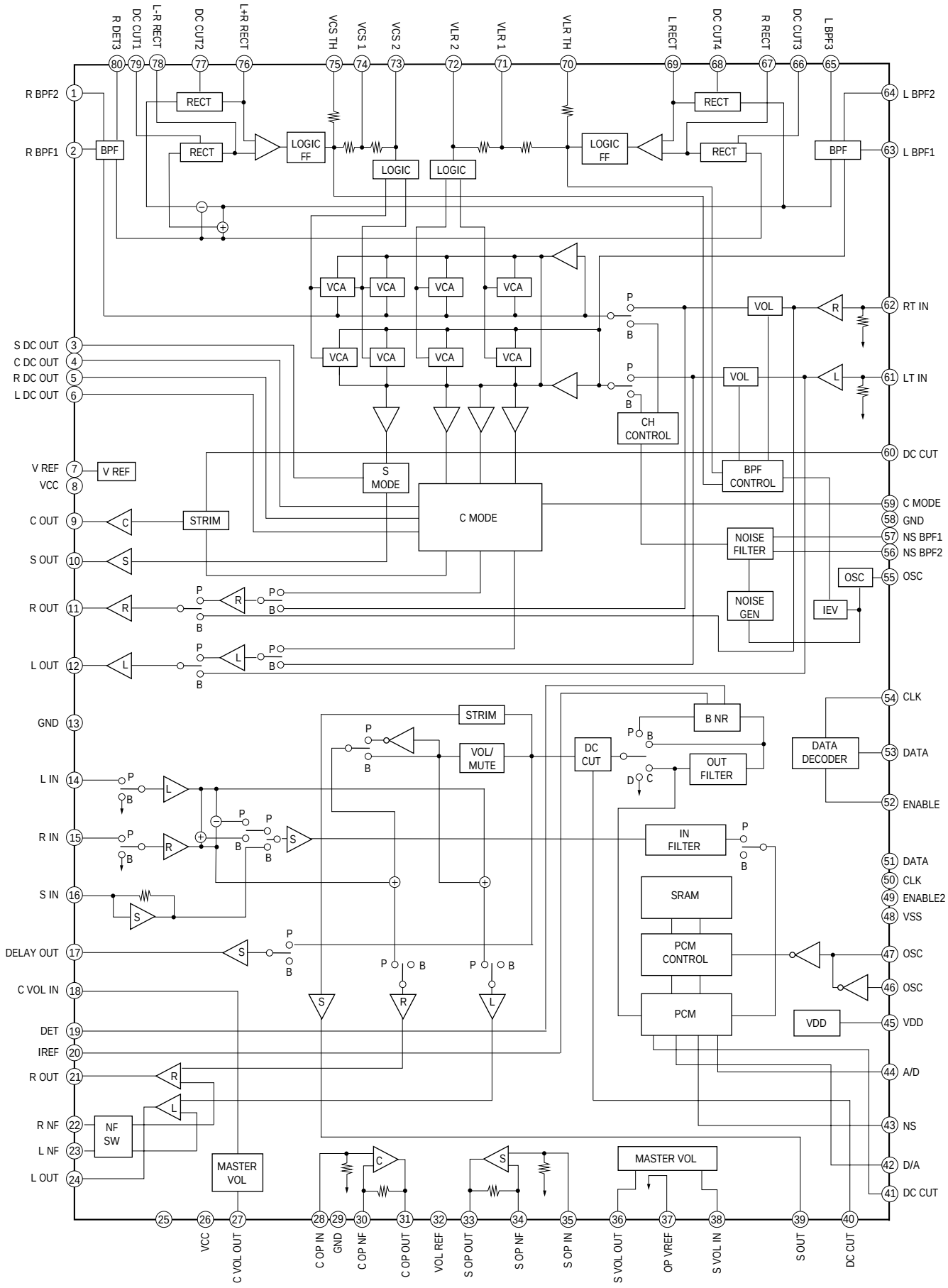


– MIC Board –

IC751 M65850FP-E1



– MAIN Board –
IC201 LV1041M



7-36. IC PIN FUNCTION DESCRIPTION

• MAIN BOARD IC501 μPD780016AYGF-014-3BA (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Function
1	LINE-MUTE	O	Line muting on/off control signal output terminal "L": muting on
2	DBFB-H/L	O	DBFB normal/high selection signal output to the M62442FP (IC101) "L": DBFB high, "H": DBFB low
3	M62442-LATCH	O	Serial data latch pulse output to the M62442FP (IC101)
4	KEYCON-LATCH	O	Serial data latch pulse output terminal Not used (open)
5	POWER	O	Power on/off control signal output for the audio system (+5V) and deck, panel, audio system (+7V) "L": power on, "H": standby
6	F-RELAY	O	Relay drive signal output for the front speaker protect "H": on
7	R-RELAY	O	Relay drive signal output for the speaker protect "H": on Not used (open)
8	PL-RELAY	O	Relay drive signal output for the rear and center speaker protect "H": on
9	VSS	—	Ground terminal
10	X2	O	Main system clock output terminal (5 MHz)
11	X1	I	Main system clock input terminal (5 MHz)
12	VDD	—	Power supply terminal (+5V)
13	XT2	O	Sub system clock output terminal (32.768 kHz)
14	XT1	I	Sub system clock input terminal (32.768 kHz)
15	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator (IC951) "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
16	$\overline{\text{AC-CUT}}$	I	AC off detection signal input from the reset signal generator (IC951)
17	CAPM-CNT1P	O	Capstan motor (M1) drive signal output terminal
18	SCOR	I	Subcode sync (S0+S1) detection signal input terminal Not used (fixed at "L")
19	SOFT-TEST	O	Output terminal for the software test (open)
20	NCO	O	Not used (open)
21	RDS-INT	I	Serial data reading clock signal input terminal Not used (fixed at "L")
22	RDS-DATA	I	Serial data input terminal Not used (fixed at "L")
23	AVDD	—	Power supply terminal (+5V) (for A/D conversion)
24	AVREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
25	ADJ	I	Setting terminal for the CD test mode Normally: fixed at "H"
26	A-SHUT	I	Shut off detection signal input from the deck-A side reel pulse detector (IC1001)
27	B-SHUT	I	Shut off detection signal input from the deck-B side reel pulse detector (IC1002)
28	B-HALF	I	Detection input from the deck-B half detect switch (S1006)
29	CLK-CHECK	I	Not used (fixed at "L")
30	SPEC-IN	I	Setting terminal for the version
31	AMS-IN	I	Automatic music sensor detection signal input from the HA12215F (IC301)
32	DEMO-CHANGE	I	Setting terminal for the demonstration H/L Fixed at "L"
33	AVSS	—	Ground terminal (for A/D conversion)
34	SQ-DATA-IN	I	Sub-code Q data input terminal Not used (fixed at "L")
35	NCO	O	Not used (open)
36	SQ-CLK	O	Sub-code Q data reading clock signal output terminal Not used (open)
37	SUR-ON/OFF	O	Not used (open)
38	FB. CONT-A	O	Not used (open)
39	FB. CONT-B	I	Not used (fixed at "L")
40	VSS	—	Ground terminal
41	PL-VOL	O	Serial data latch pulse output to the LV1041M (IC201)
42	PL-LAT	O	Serial data latch pulse output to the LV1041M (IC201)
43	COM-DIN	I	Serial data input terminal Not used (fixed at "L")
44	COM-DOUT	O	Serial data output terminal Not used (open)

Pin No.	Pin Name	I/O	Function
45	COM-CLK	O	Serial data transfer clock signal output terminal Not used (open)
46	CD-POWER	O	Power on/off control signal output for the CD and video CD section "H": power on, "L": standby
47	CD-DATA	O	Serial data output terminal Not used (open)
48	CD-CLK	O	Serial data transfer clock signal output terminal Not used (open)
49	PL-CLK	O	Serial data transfer clock signal output to the LV1041M (IC201)
50	PL-DATA	O	Serial data output to the LV1041M (IC201)
51	M62442-CLK	O	Serial data transfer clock signal output to the M62442FP (IC101)
52	M62442-DATA	O	Serial data output to the M62442FP (IC101)
53	LEVEL-CONT-A	O	Level control signal output terminal Not used (open)
54	LEVEL-CONT-B	O	Level control signal output terminal Not used (open)
55	IIC-DATA	I/O	Communication data bus with the CD mechanism controller (IC502), fluorescent indicator tube driver (IC601) and CSV control (IC801)
56	IIC-CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the CD mechanism controller (IC502), fluorescent indicator tube driver (IC601) and CSV control (IC801)
57	$\overline{\text{XRST}}$	O	Reset signal output to the CD mechanism controller (IC502) "L": reset
58	XLT	O	Serial data latch pulse output terminal Not used (open)
59	FOCUS-SW	O	Focus control signal output terminal Not used (open)
60	TBL-L	O	Motor drive signal output to the disc tray turn motor driver (IC701) *1
61	TBL-R	O	Motor drive signal output to the disc tray turn motor driver (IC701) *1
62	NCO	O	Not used (open)
63	LOAD-OUT	O	Motor drive signal output to the disc tray slide motor driver (IC801) *2
64	LOAD-IN	O	Motor drive signal output to the disc tray slide motor driver (IC801) *2
65	ST-CLK	O	PLL serial data transfer clock signal output to the FM/AM tuner unit
66	ST-DIN	I	PLL serial data input from the FM/AM tuner unit
67	ST-DOUT	O	PLL serial data output to the FM/AM tuner unit
68	ST-CE	O	PLL chip enable signal output to the FM/AM tuner unit
69	TUNED	I	Tuning detection signal input from the FM/AM tuner unit "L": tuned
70	STEREO	I	FM stereo detection signal input from the FM/AM tuner unit "L": stereo
71	VSS	—	Ground terminal
72	ST-MUTE	O	Tuner muting control signal output to the FM/AM tuner unit "L": muting on
73	SENS2	I	Internal status (SENSE) signal input terminal Not used (fixed at "L")
74	SENS	I	Internal status (SENSE) signal input terminal Not used (fixed at "L")
75	DISC-SENS	I	Disc status detection signal input from the disc sensor (IC703)
76	TBL-SENS	I	Disc tray status detection signal input from the disc tray sensor (IC702)
77	CAPM-CNT2P	O	Capstan motor (M1) drive signal output terminal

*1 Disc tray turn motor (M701) control

Mode / Terminal	STOP	COUNTER-CLOCKWISE	CLOCKWISE	BRAKE
TBL-L (pin ⑥⓪)	"H"	"L"	"H"	"L"
TBL-R (pin ⑥①)	"H"	"H"	"L"	"L"

*2 Disc tray slide motor (M801) control

Mode / Terminal	STOP	TABLE IN	TABLE OUT	BRAKE
LOAD-OUT (pin ⑥③)	"H"	"H"	"L"	"L"
LOAD-IN (pin ⑥④)	"H"	"L"	"H"	"L"

Pin No.	Pin Name	I/O	Function
78	ENC3	I	Detection signal input from the disc tray address detect rotary encoder (S811)
79	ENC2	I	
80	ENC1	I	
81	OUT-OPEN	I	Detection signal input from the disc tray open/close detect switch (S801) “L”: open, “H”: close
82	CAP-M-H/L	O	High/normal speed selection signal output of the capstan motor (M1) “L”: high speed, “H”: normal speed
83	B-TRG	O	Deck-B side trigger plunger (SL2) drive signal output terminal
84	A-TRG	O	Deck-A side trigger plunger (SL1) drive signal output terminal
85	CAPM-CNT1M	O	Capstan motor (M1) drive signal output terminal
86	CAPM-CNT2M	O	Capstan motor (M1) drive signal output terminal
87	TC-MUTE	O	Line muting on/off selection signal output to the HA12215F (IC301) “L”: muting off, “H”: muting on
88	R/P-PASS	O	Recording/playback/pass selection signal output to the HA12215F (IC301) “L”: recording mode
89	NR-ON/OFF	O	Dolby NR on/off selection signal output to the HA12215F (IC301) “L”: dolby off, “H”: dolby on
90	REC-MUTE	O	Recording muting on/off selection signal output to the HA12215F (IC301) “L”: muting on, “H”: muting off
91	CLK-OUT	O	Clock output for the check Not used (open)
92	BIAS	O	Recording bias on/off selection signal output to the HA12215F (IC301) “L”: bias off, “H”: bias on
93	EQ-H/N	O	Normal/high speed selection signal output to the HA12215F (IC301) “L”: normal speed, “H”: high speed
94	PB-A/B	O	Deck-A/B selection signal output to the HA12215F (IC301) “L”: deck-A, “H”: deck-B
95	A-PLAY-SW	I	Detection input from the deck- A play detect switch (S1001) “H”: deck-A play
96	B-PLAY-SW	I	Detection input from the deck- B play detect switch (S1002) “H”: deck-B play
97	TC-RELAY	O	Recording/playback select signal output to the REC/PB switch (IC602) “L”: playback, “H”: recording
98	A-HALF	I	Detection input from the deck-A cassette detect switch (S1003) “L”: cassette in, “H”: no cassette
99	ALC-ON/OFF	O	Automatic limiter control signal output to the HA12215F (IC301) “L”: limiter on
100	STK-MUTE	O	Power amplifier on/off selection signal output terminal “L”: on, “H”: standby

• **VIDEO BOARD IC502 (CD MECHANISM CONTROLLER)**

Former type	M30620MC-302FP
New type	M30620MC-305FP

Pin No.	Pin Name	I/O	Function
1	SENSE	I	Internal status (SENSE) signal input from the CXD2545Q (IC101)
2	SENSE CLK	O	Sense serial data reading clock signal output to the CXD2545Q (IC101)
3	DSP DATA	O	Serial data output to the CXD2545Q (IC101)
4	DSP LATCH	O	Serial data latch pulse output to the CXD2545Q (IC101)
5	DSP CLK	O	Serial data transfer clock signal output to the CXD2545Q (IC101)
6	TSENS	I	Disc tray status detection signal input terminal Not used (open)
7	REMOTE IN	I	Remote control signal input terminal Not used (open)
8	BYTE	I	External data bus line byte selection signal input "L": 16 bit, "H": 8 bit (fixed at "L")
9	VSS	—	Ground terminal
10	DSP MUTE	O	Muting on/off control signal output to the CXD2545Q (IC101) "H": muting on
11	CTRL1	O	RF equalizer selection signal output terminal "L": double speed
12	$\overline{\text{XRESET}}$	I	Reset signal input from the system controller (IC501) "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
13	XOUT	O	Main system clock output terminal (10 MHz)
14	VSS	—	Ground terminal
15	XIN	I	Main system clock input terminal (10 MHz)
16	VCC	—	Power supply terminal (+5V)
17	NMI	I	Non-maskable interrupt input terminal (fixed at "H" in this set)
18	SCOR	I	Subcode sync (S0+S1) detection signal input from the CXD2545Q (IC101)
19	ITOU	I	Former type: UART communication data input from the expansion (IC402) New type: Not used (open)
20	$\overline{\text{CL680 HINT}}$	I	Interrupt request signal input from the MPEG video/audio decoder (IC505)
21	CL680 SEL	O	Command selection signal output to the MPEG video/audio decoder (IC505)
22	DF LATCH	O	Serial data latch pulse output to the D/A converter (IC509) "L" active
23	CL680 HRDY	I	Ready status detection signal input from the MPEG video/audio decoder (IC505)
24	$\overline{\text{CL680 RESET}}$	O	Reset signal output to the MPEG video/audio decoder (IC505) "L": reset
25	JOG1	I	Rotary encoder jog dial pulse input terminal Not used (fixed at "H")
26	JOG2	I	Rotary encoder jog dial pulse input terminal Not used (fixed at "H")
27	CTRL2	O	RF equalizer selection signal output terminal "H": double speed
28	LDON	O	Laser on/off selection signal output to the CXA1821M (IC103) "H": laser on
29	RXD	I	Former type: Communication data receive input from the expansion (IC402)
	CLK	I/O	New type: Communication data reading clock signal input or transfer clock signal output with the system controller (IC501), fluorescent indicator tube driver (IC601) and CSV control (IC801)
30	TXD	O	Former type: Communication data transmit output to the expansion (IC402)
	DATA	I/O	New type: Communication data bus with the system controller (IC501), fluorescent indicator tube driver (IC601) and CSV control (IC801)
31	DATA1O	O	Serial data output to the MPEG video/audio decoder (IC505) and D/A converter (IC509)
32	DATA1I	I	Serial data input from the MPEG video/audio decoder (IC505)
33	CLK1	O	Serial data transfer clock signal output to the MPEG video/audio decoder (IC505) and D/A converter (IC509)
34	SHARPNESS	O	Sharpness control signal output of the video signal (Y signal) "H" active ("L": normal)
35	XVLEVEL. DOWN	O	Not used (open)
36	SUBQ DATA	I	Sub-code Q data input from the CXD2545Q (IC101)
37	SUBQ CLK	O	Sub-code Q data reading clock signal output to the CXD2545Q (IC101)
38	P.ON	O	Power on/off control signal output terminal Not used (open)
39	BUS XRDY	I	Ready signal input terminal Not used (fixed at "H")

Pin No.	Pin Name	I/O	Function
40	BUS	O	Not used (open)
41	BUS XHOLD	I	Hold signal input terminal Not used (fixed at "H")
42, 43	BUS	O	Not used (open)
44	SHIMUKE	I	Destination setting terminal "L": Chinese, "H": English
45	BUS	I	Vertical synchronized signal input from the MPEG video/audio decoder (IC505) "L" active
46	BUS XWRL	O	Not used (open)
47	LO.BOOST	O	Low boost control signal output terminal Not used (open)
48	AUDIO MUTE	O	Audio muting on/off control signal output terminal "L": muting on Not used (open)
49	LOAD OUT	O	Loading motor drive signal output terminal Not used (open)
50	LOAD IN	O	Loading motor drive signal output terminal Not used (open)
51	INSW	I	Disc detection (load in) switch input terminal Not used (fixed at "H")
52	OUTSW	I	Disc detection (load out) switch input terminal Not used (fixed at "H")
53	MODEL1	I	Destination setting terminal (fixed at "L")
54	MODEL2	I	Destination setting terminal (fixed at "L")
55	TBLL	O	Table motor drive signal output terminal Not used (open)
56	TBLR	O	Table motor drive signal output terminal Not used (open)
57 to 59	ENC1 to ENC3	I	Disc tray address detection signal input terminal Not used (open)
60, 61	NCO	O	Not used (open)
62	VCC	—	Power supply terminal (+5V)
63	NCO	O	Not used (open)
64	VSS	—	Ground terminal
65	VMUTE	O	Video muting on/off control signal output terminal "L": muting on
66 to 71	A6 to A1	O	Address signal output for the external device Not used (open)
72	UTOI	O	Former type: UART communication data output to the expansion (IC402) New type: Not used (open)
73	TEST LED	O	LED drive signal output for the self diagnosis indicator (D502) Normally: "L" (LED on)
74	TEST1	I	Setting terminal for the test mode 1 (for VCD check) Normally: fixed at "H" ("L": test mode)
75	TEST2	I	Setting terminal for the test mode 2 (for SERVO check) Normally: fixed at "H" ("L": test mode)
76	TEST3	I	Setting terminal for the test mode 3 Normally: fixed at "H" ("L": test mode) Not used (fixed at "H")
77	$\overline{\text{DEVICE RESET}}$	O	System reset signal output to the CXD2545Q (IC101), BA6392FP (IC102) and D/A converter (IC509) "L": reset
78	STANDBY	O	Standby on/off control signal output terminal Not used (open)
79	FL CS	O	Chip select signal output terminal Not used (open)
80	FLBLK	O	Blank control signal output terminal Not used (open)
81 to 88	D7 to D0	I/O	Two-way data bus with the external device Not used (open)
89	MIC CTRL	O	Mic control signal output terminal Not used
90 to 92	KEY1 to KEY3	I	Key input terminal Not used
93	NT/PAL	I	Video system select switch (S501) input terminal "L": PAL, "H": NTSC, Center voltage: AUTO
94	MUSIC VOL	I	Volume input terminal Not used
95	KEY4	I	Key input terminal Not used
96	AVSS	—	Ground terminal (for A/D conversion)
97	MODE. SW	I	Mode switch input terminal Not used
98	VREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
99	AVCC	—	Power supply terminal (+5V) (for A/D conversion)
100	AMP. ON	O	Power amplifier on/off selection signal output terminal Not used (open)

• **VIDEO BOARD IC505 CL680T-D1 (MPEG VIDEO/AUDIO DECODER, VIDEO SIGNAL PROCESSOR)**

Pin No.	Pin Name	I/O	Function
1	NC	O	Not used (open)
2	VSS	—	Ground terminal
3	CD-BCK	I	CD decode bit clock signal (2.8224 MHz) input from the CXD2545Q (IC101)
4	CD-DATA	I	CD decode data input from the CXD2545Q (IC101)
5	CD-LRCK	I	CD decode L/R sampling clock signal (44.1 kHz) input from the CXD2545Q (IC101)
6	CD-C2PO	I	CD decode C2 error data input from the CXD2545Q (IC101)
7 to 9	NC	O	Not used (open)
10 to 15	MD0 to MD5	I/O	Two-way data bus with the program ROM (IC506) and D-RAM (IC507)
16	VSS	—	Ground terminal
17	MD6	I/O	Two-way data bus with the program ROM (IC506) and D-RAM (IC507)
18	VDD3	—	Power supply terminal (+3.3V)
19	MD7	I/O	Two-way data bus with the program ROM (IC506) and D-RAM (IC507)
20	VSS	—	Ground terminal
21	MD8	I/O	Two-way data bus with the program ROM (IC506) and D-RAM (IC507)
22	VDD3	—	Power supply terminal (+3.3V)
23 to 28	MD9 to MD14	I/O	Two-way data bus with the program ROM (IC506) and D-RAM (IC507)
29	MD15	I/O	Two-way data bus with the program ROM (IC506)
30 to 36	NC	O	Not used (open)
37	$\overline{\text{MCE}}$	O	Chip enable signal output to the program ROM (IC506)
38	$\overline{\text{MWE}}$	O	Write enable signal output to the D-RAM (IC507)
39	VSS	—	Ground terminal
40	$\overline{\text{CAS}}$	O	Column address strobe signal output to the D-RAM (IC507)
41	VDD3	—	Power supply terminal (+3.3V)
42	$\overline{\text{RAS0}}$	O	Row address strobe signal output to the D-RAM (IC507)
43	$\overline{\text{RAS1}}$	O	Row address strobe signal output terminal Not used (open)
44, 45	MA10, MA9	O	Address signal output to the program ROM (IC506)
46	MA8	O	Address signal output to the program ROM (IC506) and D-RAM (IC507)
47	VSS	—	Ground terminal
48	MA7	O	Address signal output to the program ROM (IC506) and D-RAM (IC507)
49	VDD3	—	Power supply terminal (+3.3V)
50 to 52	MA6 to MA4	O	Address signal output to the program ROM (IC506) and D-RAM (IC507)
53	VSS	—	Ground terminal
54	MA3	O	Address signal output to the program ROM (IC506) and D-RAM (IC507)
55	VDD3	—	Power supply terminal (+3.3V)
56 to 58	MA2 to MA0	O	Address signal output to the program ROM (IC506) and D-RAM (IC507)
59	PGIO7	I/O	Not used (open)
60	$\overline{\text{RESET}}$	I	Reset signal input from the CD mechanism controller (IC502) “L”: reset
61	VDDMAX-IN	I	Fix the maximum input voltage each input terminal and in/out terminal
62 to 64	NC	O	Not used (open)
65	AGND-DAC	—	Ground terminal (for D/A converter)
66	AVDD-DAC	—	Power supply terminal (+3.3V) (for D/A converter)
67	COMPOS OUT	O	Composite video signal output terminal Not used (open)
68	AGND-DAC	—	Ground terminal (for D/A converter)
69	Y-OUT	O	Luminance video signal output terminal
70	AVDD-DAC	—	Power supply terminal (+3.3V) (for D/A converter)
71	AGND-DAC	—	Ground terminal (for D/A converter)

Pin No.	Pin Name	I/O	Function
72	RREF	I	Fix the video signal output level control
73	VREF	O	Reference voltage (+1.235V) output terminal
74	AVDD-DAC	—	Power supply terminal (+3.3V) (for D/A converter)
75	C-OUT	O	Chrominance video signal output terminal
76	AGND-DAC	—	Ground terminal (for D/A converter)
77	CLK-SEL0	I	GCK (pin ⑮) selection terminal "L": external clock, "H": internal clock (fixed at "H")
78	CLK-SEL1	I	DA-XCLK (pin ⑯) selection (1) terminal Fixed at "H" in this set
79	CLK-SEL2	I	DA-XCLK (pin ⑯) selection (2) terminal Fixed at "H" in this set
80	VSS	—	Ground terminal
81	RESERVED	I	Selection the operation clock 42.336 MHz (fixed at "L")
82	VDD3	—	Power supply terminal (+3.3V)
83	DA-EMP	O	Not used (open)
84	RESERVED	O	Not used (open)
85	AGND-PLL	—	Ground terminal (for PLL system)
86	DA-XCLK	I	Main reference clock signal (16.9344 MHz=384fs) from the D/A converter (IC509)
87	AVDD-PLL	—	Power supply terminal (+3.3V) (for PLL system)
88	PGIO4	I/O	Not used (open)
89	PGIO5	I/O	Not used (open)
90	PGIO6	I/O	Not used (open)
91	PGIO0	I/O	Not used (open)
92	PGIO8	I/O	Not used (open)
93	PGIO2/$\overline{\text{VSYNC}}$/CSYNC	O	Vertical synchronized signal output to the CD mechanism controller (IC502)
94	AVDD-PLL	—	Power supply terminal (+3.3V) (for PLL system)
95 to 97	NC	O	Not used (open)
98	AGND-PLL	—	Ground terminal (for PLL system)
99	VSS	—	Ground terminal
100	NC	O	Not used (open)
101	PGIO3/$\overline{\text{HSYNC}}$	I/O	Not used (open)
102	VDD3	—	Power supply terminal (+3.3V)
103	PGIO1/VCK-OUT	I/O	Not used (open)
104	VSS	—	Ground terminal
105	GCK	I	Not used (open)
106	VCK-IN	I	Main clock for video signal processor input from the D/A converter (IC509)
107	GCKOUT/DA-EMP	O	Not used (open)
108	DA-LRCK	O	Digital audio L/R sampling clock signal (44.1 kHz) output to the D/A converter (IC509)
109	VDDMAX-OUT	O	Fix the maximum output voltage (+5V) certain output terminal
110	DA-DATA	O	Digital audio data output to the D/A converter (IC509)
111	DA-BCK	O	Digital audio bit clock signal (2.8224 MHz) output to the D/A converter (IC509)
112	HD-OUT	O	Serial data output to the CD mechanism controller (IC502)
113	HRDY	O	Ready signal output to the CD mechanism controller (IC502)
114	$\overline{\text{HINT}}$	O	Interrupt request signal output to the CD mechanism controller (IC502)
115	CDG-SCK	I/O	Not used (open)
116	VSS	—	Ground terminal
117	HCK	I	Serial data transfer clock signal input from the CD mechanism controller (IC502)
118	VDD3	—	Power supply terminal (+3.3V)
119	HD-IN	I	Serial data input from the CD mechanism controller (IC502)

Pin No.	Pin Name	I/O	Function
120	VDD3	—	Power supply terminal (+3.3V)
121	HSEL	I	Command selection signal input from the CD mechanism controller (IC502)
122	CDG-SDATA	I	Not used (fixed at “L”)
123	CDG-VFSY	I	Not used (fixed at “L”)
124	CDG-S0S1	I	Not used (fixed at “L”)
125 to 128	NC	O	Not used (open)

• **PANEL BOARD IC601 TMP87CM74AF-6731**

(FLUORESCENT INDICATOR TUBE DRIVE, LED DRIVE, KEY CONTROL)

Pin No.	Pin Name	I/O	Function
1	LED3	O	LED drive signal output terminal (for decoration LED)
2	LED4	O	LED drive signal output terminal (for decoration LED)
3	LED5	O	LED drive signal output terminal (DISC 3)
4	LED6	O	LED drive signal output terminal (DISC 2)
5	LED7	O	LED drive signal output terminal (DISC 1)
6	LED8	O	LED drive signal output terminal (ENTER/NEXT, GROOVE)
7	VSS	—	Ground terminal
8	X-OUT	O	System clock output terminal (8 MHz)
9	X-IN	I	System clock input terminal (8 MHz)
10	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator (IC951) "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
11	LED9	O	LED drive signal output terminal (JOG, DJ MIX)
12	LED10	O	LED drive signal output terminal (CD NON-STOP, + ▶▶, – ◀◀)
13	TEST	I	Connected to ground
14	LED11	O	LED drive signal output terminal (PRO LOGIC, DSP)
15	LED12	O	LED drive signal output terminal (EFFECT, VIDEO CD)
16	LED13	O	LED drive signal output terminal (CD ▶ ❚❚)
17	LED14	O	LED drive signal output terminal (TAPE B ▶/◀)
18	LED15	O	LED drive signal output terminal (TAPE A ▶/◀)
19	VOL-A	I	Rotary encoder pulse input from the S602 (VOLUME)
20	VOL-B	I	Rotary encoder pulse input from the S602 (VOLUME)
21	JOG-A	I	Jog dial pulse input from the S601 (⏮ ↔ ⏭ DJ MIX)
22	JOG-B	I	Jog dial pulse input from the S601 (⏮ ↔ ⏭ DJ MIX)
23	SCL	I/O	Communication data reading clock signal input or transfer clock signal output with the system controller (IC501), CD mechanism controller (IC502) and CSV control (IC801)
24	SDA	I/O	Communication data bus with the system controller (IC501), CD mechanism controller (IC502) and CSV control (IC801)
25	L.SEL	O	LED selection signal output terminal
26	KEY-0	I	Key input terminal (A/D input) (S604 to 616) PRO LOGIC, DSP, KARAOKE PON/MPX, ■, P FILE MEMORY, GEQ CONTROL, FILE SELECT, EFFECT, DEMO, TIMER SELECT, FUNCTION, CLOCK/TIMER SET, DISPLAY keys input
27	KEY-1	I	Key input terminal (A/D input) (S618, 619, 621 to 630) CD FLASH, CD NON-STOP, – ◀◀, ENTER/NEXT, + ▶▶ , DBFB, GROOVE, ACTIVE, SELECT, RETURN, PREV, NEXT keys input
28	KEY-2	I	Key input terminal (A/D input) (S631 to 642) TUNER BAND, CD ▶ ❚❚, TAPE B ▶/◀, TAPE A ▶/◀, I/⏻ (POWER), DISC 1/2/3, DISC SKIP/EX-CHANGE, ⏏ keys input
29	KEY-3	I	Key input terminal (A/D input) (S617, 652 to 654, 656 to 659) CD LOOP, PLAY MODE/DOLBY NR/TUNER MEMORY, EDIT/DIRECTION, REPEAT STEREO/MONO, ● REC, ❚❚ PAUSE, HI-DUB, CD SYNC keys input
30	MODEL	I	Destination setting terminal
31	SPEANA RESET	O	Reset signal output terminal "H": reset Not used (open)
32	L+R	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (IC603) (for VACS, non-stop signal)
33	SIRCS	I	Remote control signal input from the remote control receiver (IC602)

Pin No.	Pin Name	I/O	Function
34	SPEANA-1	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (IC603) (for low frequency)
35	SPEANA-2	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (IC603) (for low and middle frequency)
36	SPEANA-3	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (IC603) (for middle and high frequency)
37	SPEANA-4	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (IC603) (for high frequency)
38	VASS	—	Ground terminal (for A/D conversion)
39	VAREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
40	VDD	—	Power supply terminal (+5V)
41 to 53	GR1 to GR13	O	Grid drive signal output to the fluorescent indicator tube (ND601)
54 to 69	SEG1 to SEG16	O	Segment drive signal output to the fluorescent indicator tube (ND601)
70 to 72	SEG19 to SEG17	O	Segment drive signal output to the fluorescent indicator tube (ND601)
73 to 77	SEG24 to SEG20	O	Segment drive signal output to the fluorescent indicator tube (ND601)
78	VKK	—	Power supply terminal (–35V) (for fluorescent indicator tube drive)
79	LED1	O	LED drive signal output terminal (● REC, ❚❚ PAUSE)
80	LED2	O	LED drive signal output terminal (PBC, PBC OFF)

• **PANEL BOARD IC801 TMP87CH48DF-4825 (CSV CONTROL, LED DRIVE, KEY CONTROL)**

Pin No.	Pin Name	I/O	Function
1	VSS	—	Ground terminal
2	X-OUT	O	System clock output terminal (8 MHz)
3	X-IN	I	System clock input terminal (8 MHz)
4	$\overline{\text{RESET}}$	I	System reset signal input from the reset signal generator (IC951) "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
5	MUTE	O	DJ muting on/off control signal output terminal "L": muting on
6	MODE 0	I	Setting terminal for the CPU operational mode (fixed at "L" in this set)
7	TEST	I	Connected to ground
8	MODE 1	I	Setting terminal for the CPU operational mode (fixed at "L" in this set)
9	YB CLK	O	Not used (pull down)
10	NAR/YB RDY	I	Not used (fixed at "H")
11	$\overline{\text{BSY}}$	I	Busy signal input from the MSM6653A (IC851) "L": busy status
12	$\overline{\text{RST}}$	O	Reset signal output to the MSM6653A (IC851) "L": reset
13	$\overline{\text{CH}}$	O	Channel selection signal output to the MSM6653A (IC851) "L" active
14	DATA	O	Serial data output to the MSM6653A (IC851)
15	CLK	O	Serial data transfer clock signal output to the MSM6653A (IC851)
16	LAT	O	Serial data latch pulse output to the MSM6653A (IC851)
17	YB D0	I	Not used (fixed at "L")
18	12C CLK	I/O	Communication data reading clock signal input or transfer clock signal output with the system controller (IC501), CD mechanism controller (IC502) and fluorescent indicator tube driver (IC601)
19	12C DATA	I/O	Communication data bus with the system controller (IC501), CD mechanism controller (IC502) and fluorescent indicator tube driver (IC601)
20	YB D3	I	Not used (fixed at "L")
21	UART RX	I	Not used (fixed at "L")
22	UART TX	O	Not used (pull down)
23 to 26	NC	O	Not used (open)
27	JOG A	I	Jog dial pulse input from the S601 (⏮ ↔ ⏭ DJ MIX)
28	JOG B	I	Jog dial pulse input from the S601 (⏮ ↔ ⏭ DJ MIX)
29	SIRCS	I	Remote control signal input from the remote control receiver (IC602)
30	VASS	—	Ground terminal (for A/D conversion)
31	VAREF	I	Reference voltage (+5V) input terminal (for A/D conversion)
32	DVDD	—	Power supply terminal (+5V)
33	BPF/LOW	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (IC603) (for low frequency)
34	BPF/LOW-MID	I	Spectrum analyzer drive signal input terminal (for low and middle frequency) Not used (fixed at "L")
35	BPF/HIGH-MID	I	Spectrum analyzer drive signal input terminal (for middle and high frequency) Not used (fixed at "L")
36	BPF/HIGH	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (IC603) (for high frequency)
37	L+R	I	Spectrum analyzer drive signal input from the spectrum analyzer band-pass filter (IC603) (for VACS, non-stop signal)
38	KEY0	I	Key input terminal (A/D input) (S805 to 808) A PAD, BEAT ON/OFF, BEAT SELECT, BEAT SPEED keys input
39	KEY1	I	Key input terminal (A/D input) (S801 to 804) B PAD, BEAT LEVEL, BEAT JAM, AUTO BPM keys input
40	KEY2	I	Key input terminal (A/D input) Not used (fixed at "H")

Pin No.	Pin Name	I/O	Function
41 to 56	NC	O	Not used (open)
57 to 60	GND	—	Ground terminal
61	BPM LED-B	O	LED drive signal output terminal (AUTO BPM) “L”: LED on
62	BPM-LED-A	O	LED drive signal output terminal (AUTO BPM) “L”: LED on
63	BOMBER-LED	O	LED drive signal output terminal (BEAT JAM) “L”: LED on
64	ON/OFF-LED	O	LED drive signal output terminal (BEAT ON/OFF) “L”: LED on

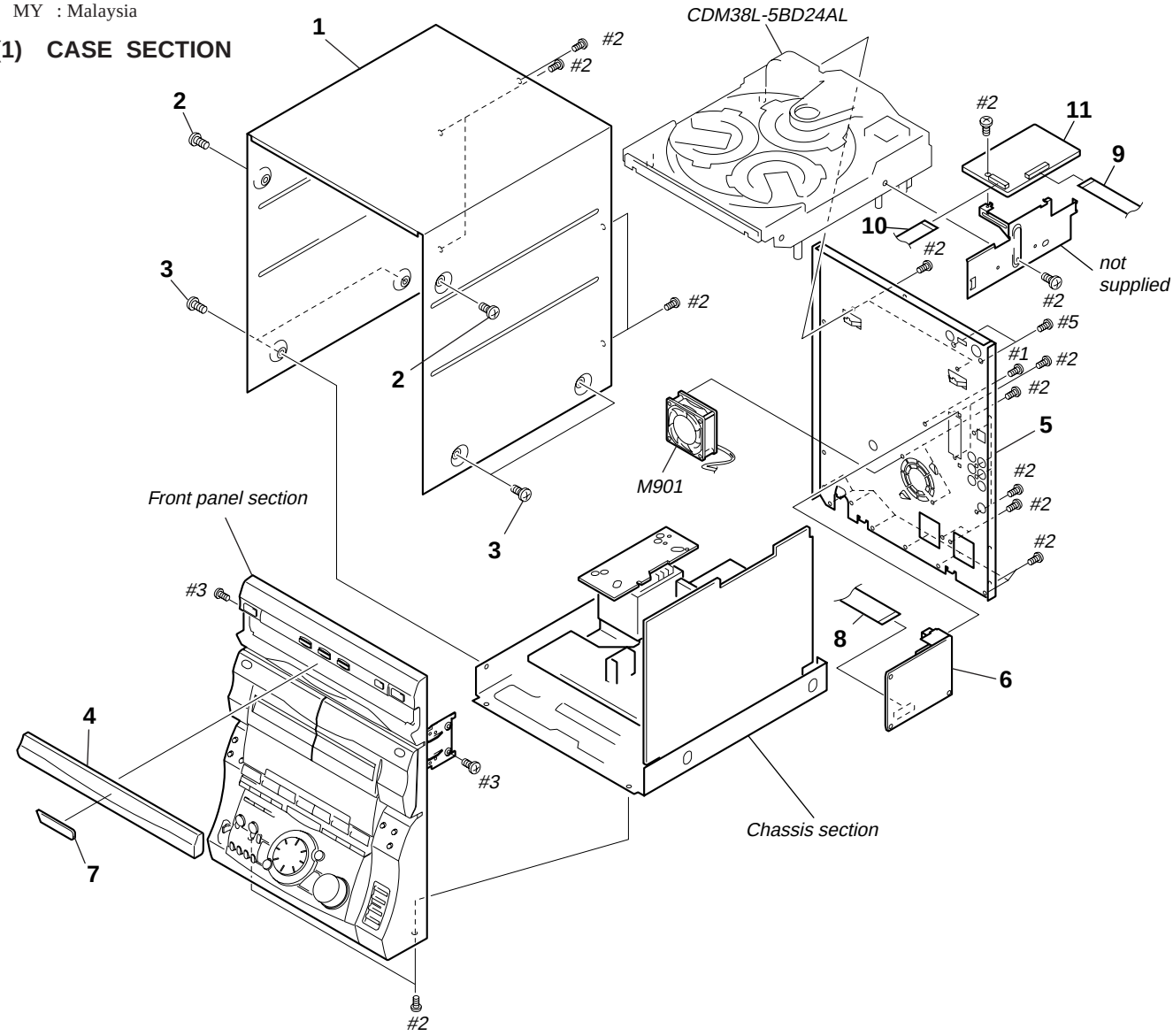
SECTION 8
EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Abbreviation
  CH : Chinese SP : Singapore
  IA : Indonesia TH : Thai
  MY : Malaysia
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

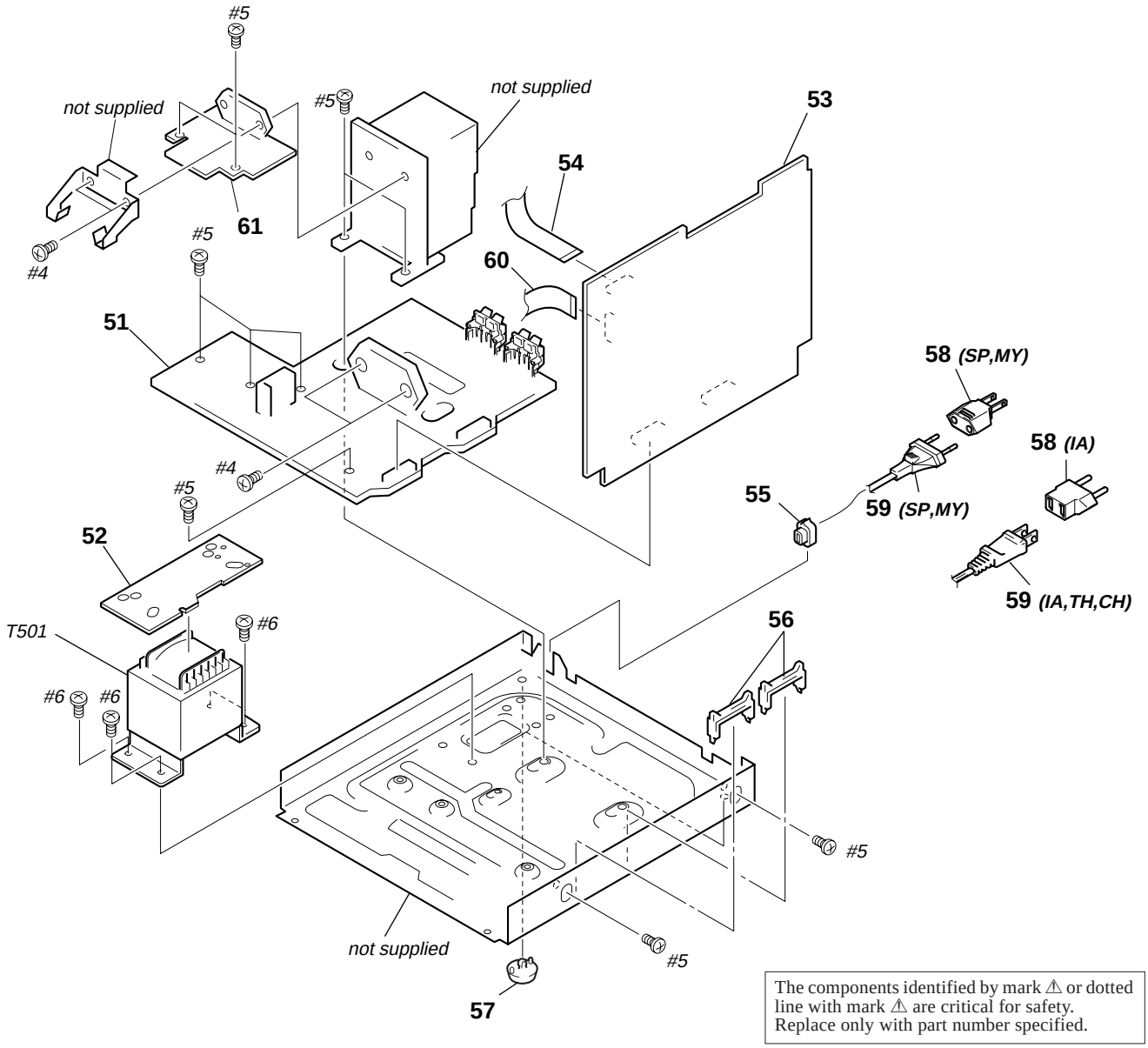
以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

(1) CASE SECTION



Ref. No.	Part No.	Description	Remark
* 1	4-996-816-61	CASE (TH)	
* 1	4-996-816-81	CASE (EXCEPT TH)	
2	3-363-099-71	SCREW (CASE 3 TP2)	
3	3-363-099-01	SCREW (CASE 3 TP2) (TH)	
3	3-363-099-11	SCREW (CASE 3 TP2) (EXCEPT TH)	
4	4-900-740-11	PANEL, LOADING	
* 5	4-900-722-01	PANEL, BACK (SP, MY)	
* 5	4-900-722-11	PANEL, BACK (CH)	
* 5	4-900-722-21	PANEL, BACK (IA)	
* 5	4-900-722-31	PANEL, BACK (TH)	
6	1-233-545-11	TUNER, FM/AM (TH)	
6	1-693-381-11	TUNER, FM/AM (CH)	
6	1-693-421-11	TUNER, FM/AM (SP, MY, IA)	
7	4-991-781-01	EMBLEM (VCD)	
8	1-751-688-11	WIRE (FLAT TYPE) (13 CORE) (TH)	
8	1-773-009-11	WIRE (FLAT TYPE) (15 CORE) (150 mm) (EXCEPT TH)	
9	1-775-212-11	WIRE (FLAT TYPE) (23 CORE)	
10	1-690-589-31	WIRE (FLAT TYPE) (13 CORE)	
* 11	A-4414-186-A	VIDEO BOARD, COMPLETE (EXCEPT CH)	
* 11	A-4724-279-A	VIDEO BOARD, COMPLETE (CH)	
M901	1-763-048-21	FAN, D.C.	

(2) CHASSIS SECTION

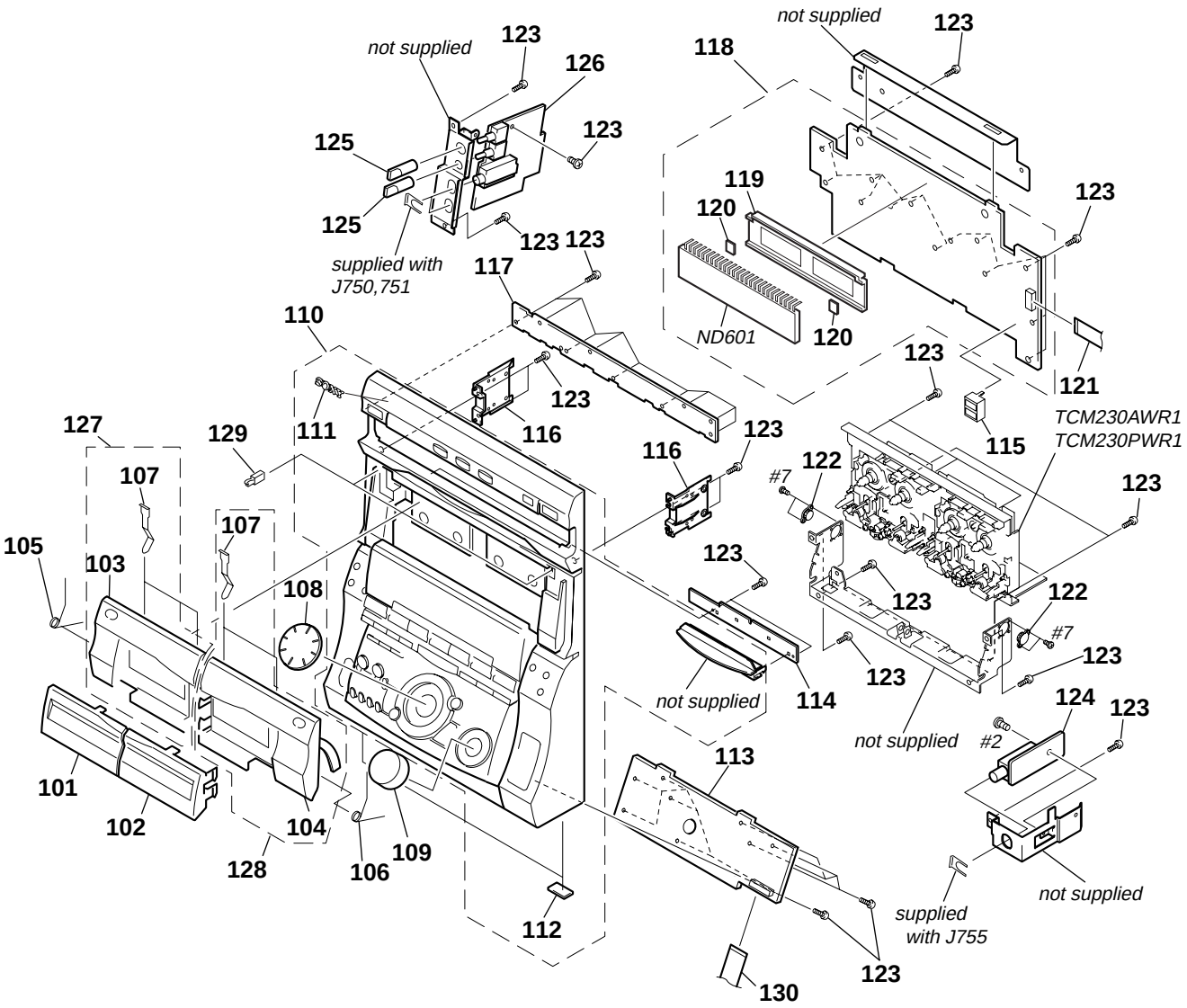


The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description	Remark
* 51	A-4407-298-A	POWER AMP BOARD, COMPLETE (SP, MY, IA)	
* 51	A-4407-409-A	POWER AMP BOARD, COMPLETE (TH)	
* 51	A-4414-058-A	POWER AMP BOARD, COMPLETE (CH)	
* 52	1-668-274-11	TRANSFORMER BOARD	
* 53	A-4414-052-A	MAIN BOARD, COMPLETE (SP, MY, IA)	
* 53	A-4414-056-A	MAIN BOARD, COMPLETE (CH)	
* 53	A-4414-637-A	MAIN BOARD, COMPLETE (TH)	
54	1-773-043-11	WIRE (FLAT TYPE) (17 CORE)	
55	3-703-244-00	BUSHING (FBS001), CORD (SP, MY, CH)	
55	3-703-571-11	BUSHING (S) (4516), CORD (TH)	
55	4-966-266-01	BUSHING (S) (FBS002), CORD (IA)	
* 56	4-988-533-01	HOLDER, PWB	
57	4-965-822-01	FOOT	
⚠58	1-569-007-11	ADAPTOR, CONVERSION 2P (IA)	
⚠58	1-569-008-21	ADAPTOR, CONVERSION 2P (SP, MY)	
⚠59	1-558-943-41	CORD, POWER (IA, TH)	
⚠59	1-575-651-21	CORD, POWER (SP, MY)	
⚠59	1-782-510-11	CORD, POWER (CH)	
60	1-783-898-11	WIRE (FLAT TYPE) (15 CORE)	
* 61	A-4407-766-A	SURROUND BOARD, COMPLETE (TH)	
* 61	A-4414-862-A	SURROUND BOARD, COMPLETE (SP, MY, IA)	
* 61	A-4417-262-A	SURROUND BOARD, COMPLETT (CH)	
⚠T501	1-431-828-11	TRANSFORMER, POWER	

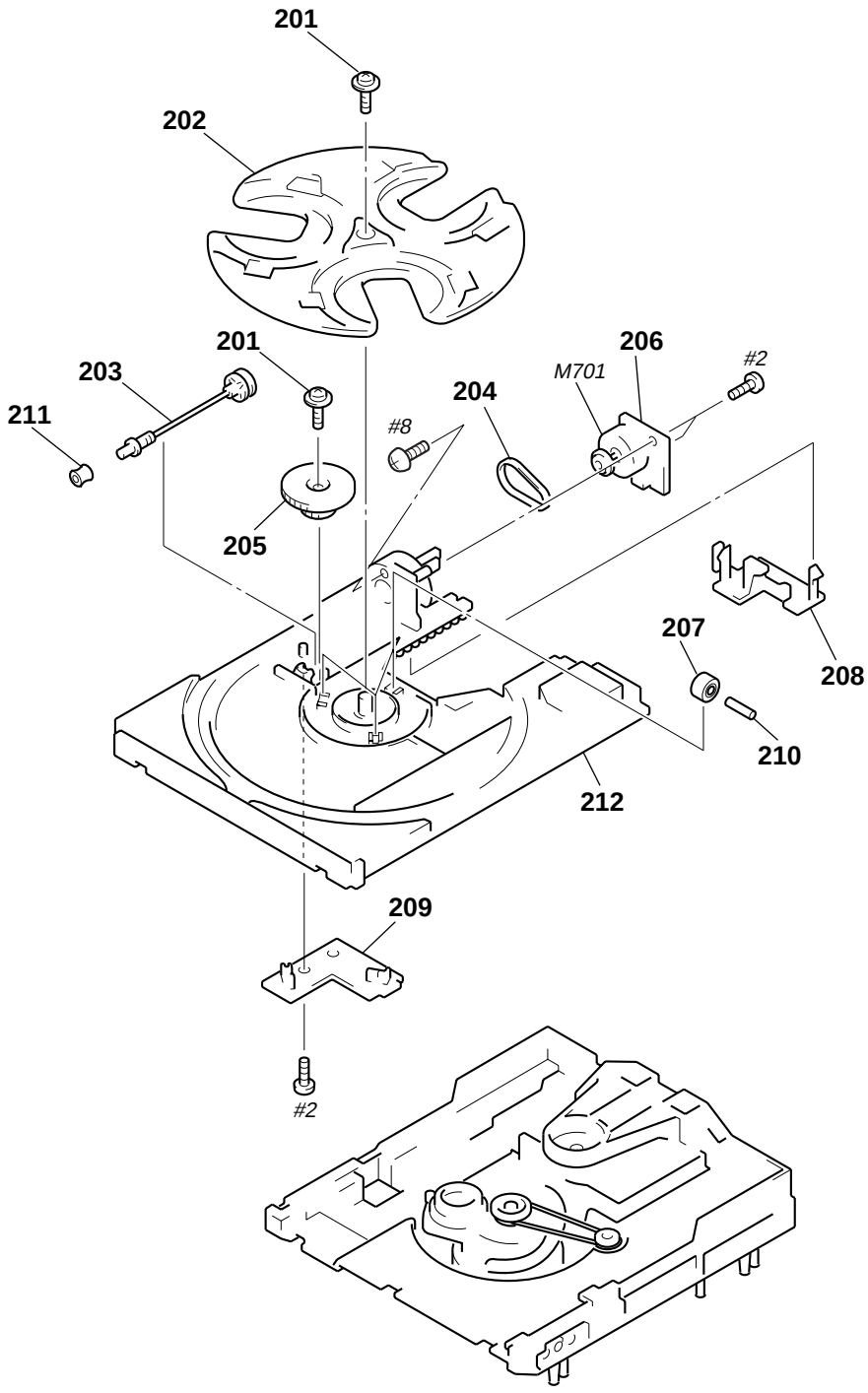
(3) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
101	4-996-808-01	WINDOW (TCL)	
102	4-996-809-01	WINDOW (TCR)	
103	4-996-799-01	LID (A), CASSETTE	
104	4-996-800-01	LID (B), CASSETTE	
105	4-900-600-01	SPRING (A DECK)	
106	4-900-601-01	SPRING (B DECK)	
107	4-959-229-11	DETENT, CASSETTE	
108	4-996-810-01	KNOB (JOG)	
109	4-996-811-01	KNOB (VOL)	
110	X-4949-983-1	PANEL ASSY, FRONT	
111	4-962-708-21	EMBLEM (4-A), SONY	
112	4-988-663-01	FOOT (FELT)	
* 113	A-4414-044-A	CONT-PANEL BOARD, COMPLETE	
* 114	1-668-269-11	DECORATION BOARD	
115	4-996-812-01	HOLDER (LED)	
116	4-996-716-01	HOLDER (CDM)	

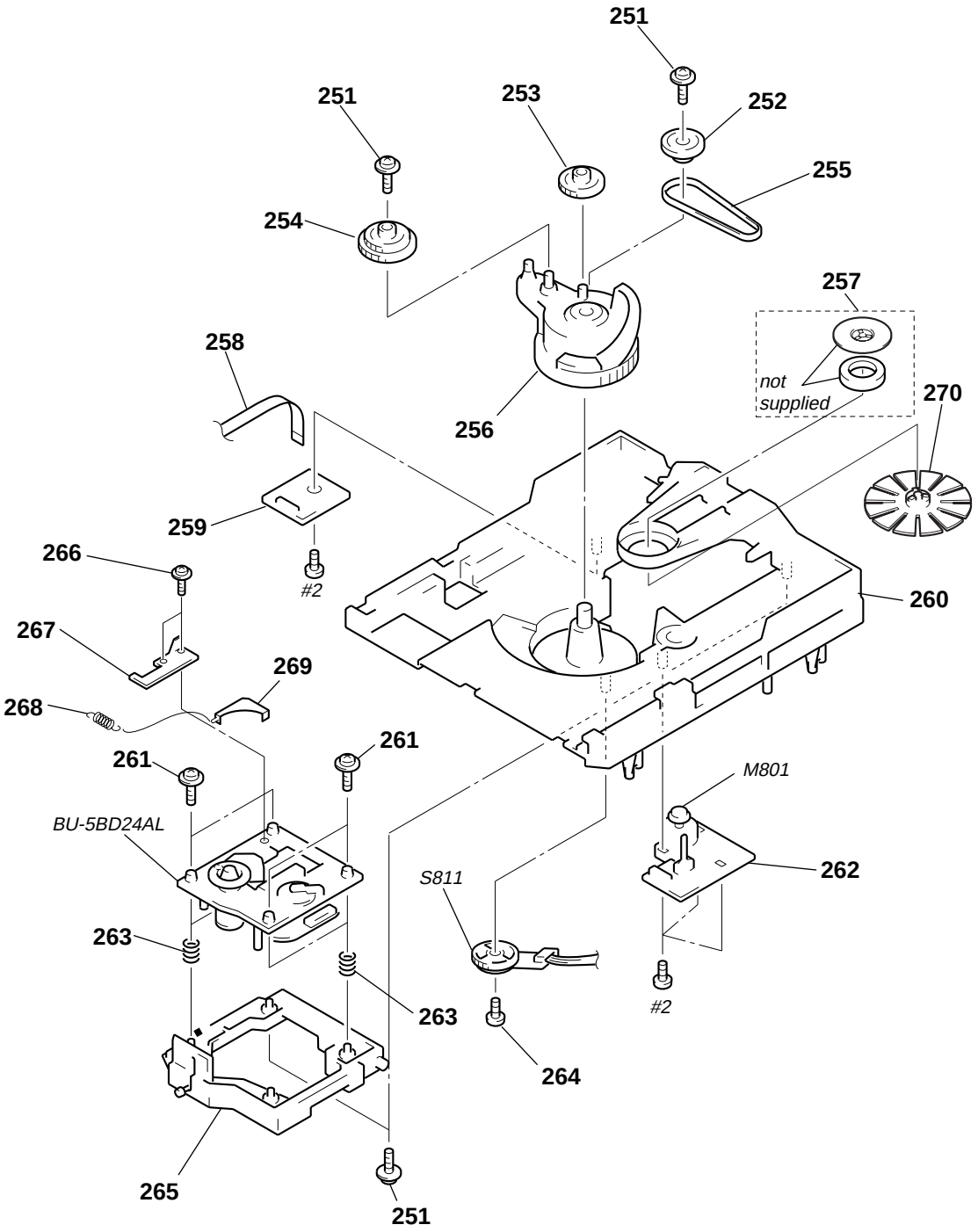
Ref. No.	Part No.	Description	Remark
* 117	1-668-268-11	CD SWITCH BOARD	
* 118	A-4414-054-A	PANEL BOARD, COMPLETE (EXCEPT TH)	
* 118	A-4414-635-A	PANEL BOARD, COMPLETE (TH)	
* 119	4-996-796-11	HOLDER, FL TUBE	
* 120	4-932-810-31	CUSHION (FL)	
121	1-769-972-11	WIRE (FLAT TYPE) (13 CORE)	
* 122	3-973-975-21	DAMPER, OIL	
123	4-951-620-01	SCREW (2.6X8), +BVTP	
* 124	1-668-271-11	HEADPHONE BOARD	
125	4-986-893-51	KNOB (MICROPHONE)	
* 126	A-4414-041-A	MIC BOARD, COMPLETE	
127	X-4949-941-1	LID (L) ASSY, CASSETTE	
128	X-4949-942-1	LID (R) ASSY, CASSETTE	
129	4-995-081-01	LATCH, DC	
130	1-773-108-11	WIRE (FLAT TYPE) (19 CORE)	
ND601	1-517-731-21	INDICATOR TUBE, FLUORESCENT	

(4) CD MECHANISM DECK SECTION-1 (CDM38L-5BD24AL)



Ref. No.	Part No.	Description	Remark
201	4-981-789-11	BRACKET (2), YOKE	
202	4-977-945-01	TRAY (TURN)	
203	X-4946-665-1	SHAFT ASSY, WORM	
204	4-977-943-01	BELT (TURN) (1.2)	
205	4-977-956-01	WHEEL, WORM	
* 206	1-658-577-11	MOTOR (TURN) BOARD	
207	4-988-162-01	ROLLER	
208	4-977-941-01	BEARING (WORM)	
* 209	1-658-576-11	SENSOR BOARD	
210	4-934-376-01	SHAFT (ROLLER)	
211	4-981-187-01	COLLAR (WORM)	
212	4-977-944-01	TRAY (SLIDE)	
M701	A-4672-004-A	MOTOR ASSY (TURN)	

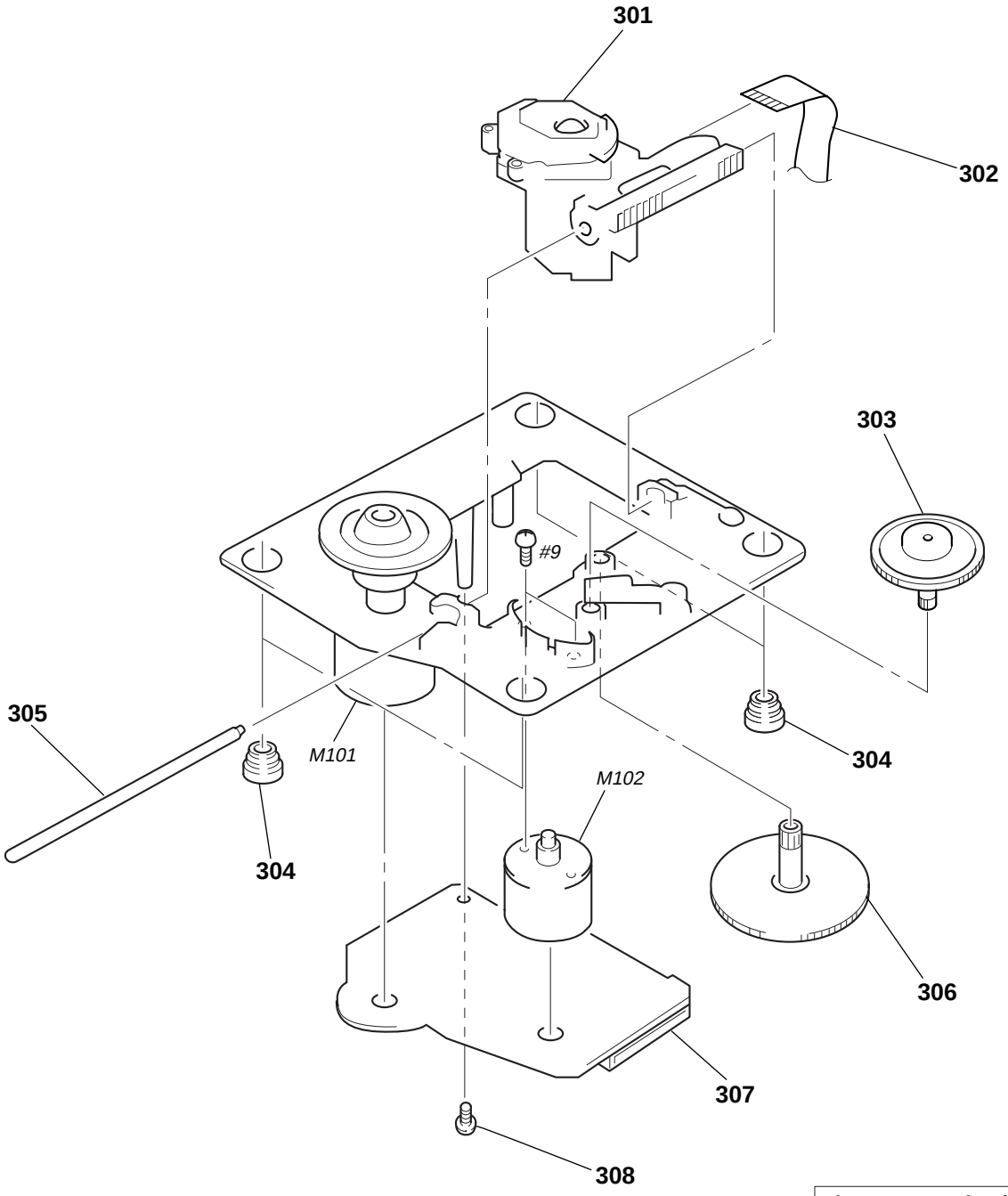
(5) CD MECHANISM DECK SECTION-2 (CDM38L-5BD24AL)



Ref. No.	Part No.	Description	Remark
251	4-981-789-11	BRACKET (2), YOKE	
252	4-977-954-01	PULLEY (SL)	
253	4-977-953-01	GEAR (SL-A)	
254	4-977-955-01	GEAR (SL-B)	
255	4-977-942-01	BELT (SL) (1.4)	
256	X-4946-667-1	CAM ASSY, BU	
257	1-452-925-11	MAGNET ASSY	
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)	
* 259	1-658-575-11	CONNECTOR BOARD	
* 260	X-4946-668-1	CHASSIS (CDM) ASSY	
261	4-985-672-01	SCREW (+PTPWH M2.6), FLOATING	

Ref. No.	Part No.	Description	Remark
* 262	1-658-578-11	MOTOR (SLIDE) BOARD	
263	4-982-447-01	SPRING (BU), COMPRESSION	
264	4-951-620-41	SCREW (2.6), +BVTP	
* 265	X-4946-666-1	HOLDER (BU) ASSY	
266	4-989-494-01	SCREW (SLIDER), STEP	
267	4-989-492-11	SLIDER (38)	
268	4-989-819-11	SPRING, TENSION	
269	4-989-491-11	COVER, LENS	
270	4-994-963-01	PULLEY (LBT), PRESS	
M801	A-4672-004-A	MOTOR ASSY (SLIDE)	
S811	1-473-335-11	ENCODER, ROTARY (BU, TRAY ADDRESS DET)	

(6) BASE UNIT SECTION (BU-5BD24AL)



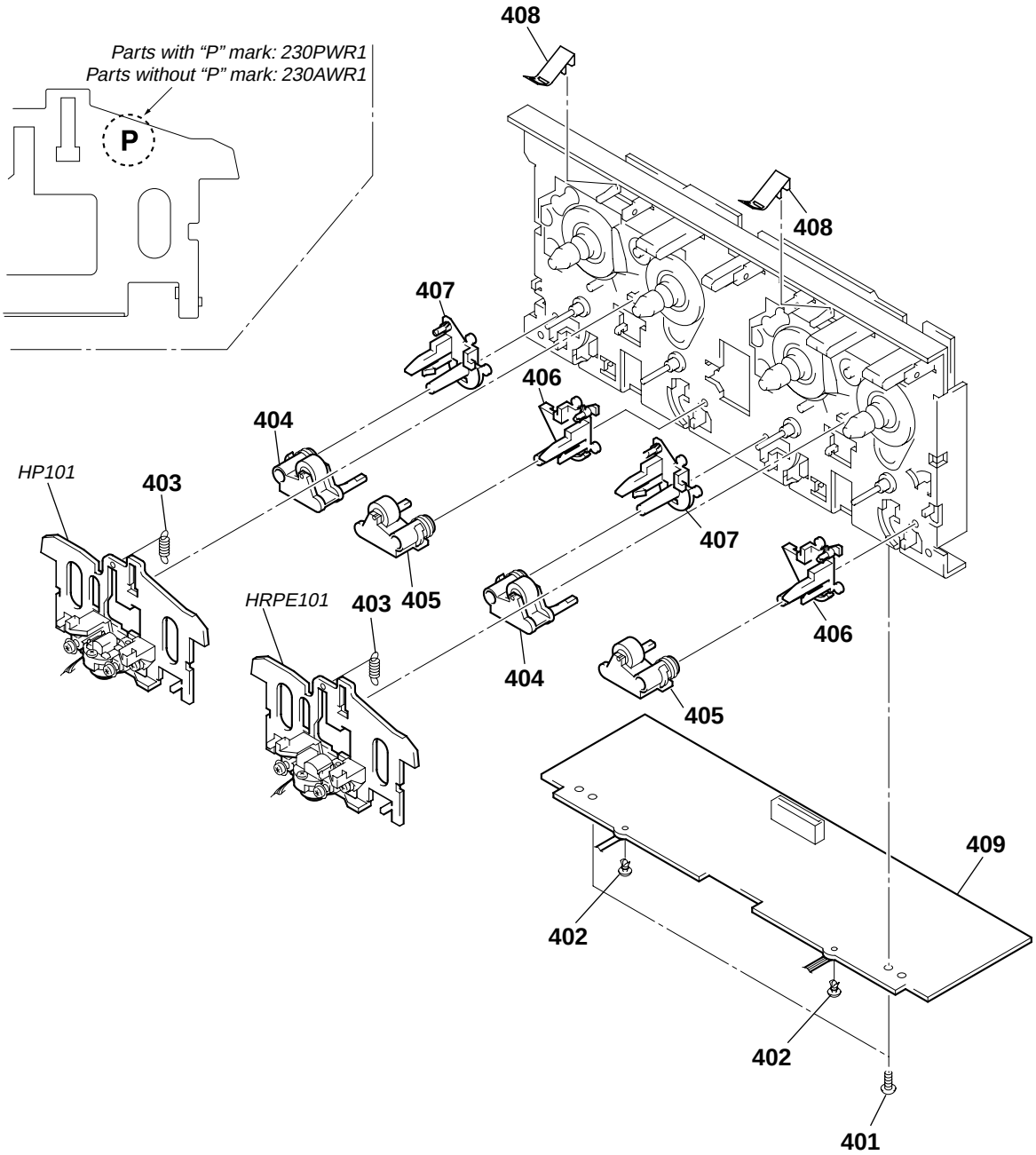
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

Ref. No.	Part No.	Description	Remark
⚠301	8-820-020-02	OPTICAL PICK-UP KSS-213D/Q-NP	
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
303	4-917-567-01	GEAR (M)	
304	4-951-940-01	INSULATOR (BU)	
305	4-917-565-01	SHAFT, SLED	
306	4-917-564-01	GEAR (P), FLATNESS	
* 307	A-4699-697-A	BD BOARD, COMPLETE	
308	4-951-620-01	SCREW (2.6X8), +BVTP	
M101	A-4917-523-A	MOTOR ASSY (SPINDLE)	
M102	A-4917-504-A	MOTOR ASSY (SLED)	

(7) TAPE MECHANISM DECK SECTION-1
(TCM-230AWR1 / TCM-230PWR1)

***NOTE:** Two types of parts which are not interchangeable are available for the Head deck (A) ASSY and Head deck (B) ASSY. When replacing the parts, refer to the following figure, and use the appropriate part*

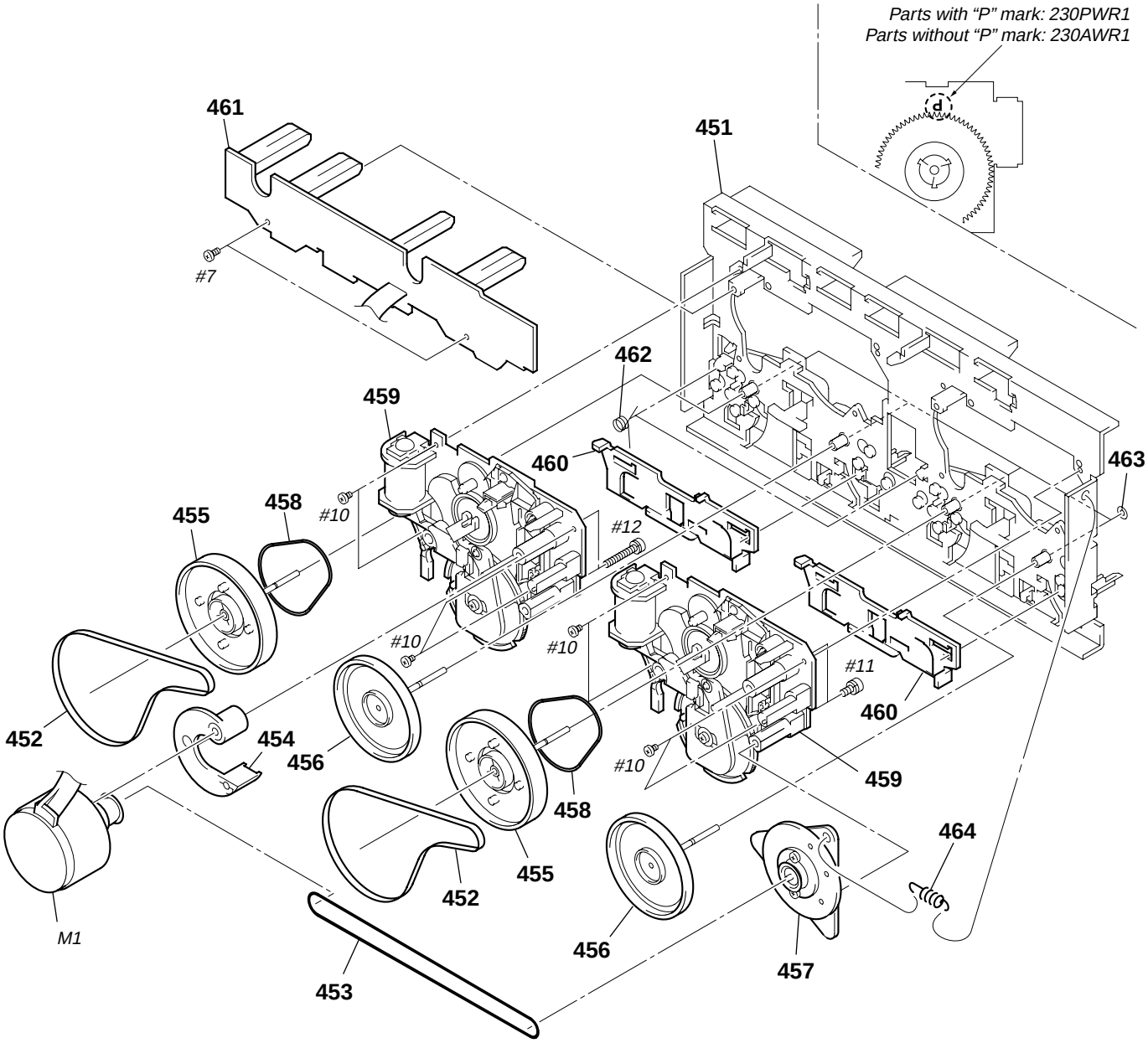


Ref. No.	Part No.	Description	Remark
401	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
402	3-911-116-21	RIVET, PUSH	
403	3-016-574-01	SPRING (HEAD), TENSION	
404	X-3374-156-1	PINCH LEVER (REV) ASSY	
405	X-3374-155-1	PINCH LEVER (FWD) ASSY	
406	3-016-564-01	BASE (PINCH LEVER FWD)	
407	3-016-565-01	BASE (PINCH LEVER REV)	

Ref. No.	Part No.	Description	Remark
408	3-016-567-01	SPRING (CASSETTE), LEAF	
* 409	A-2007-731-A	AUDIO BOARD, COMPLETE	
HP101	A-2056-681-A	DECK (A) ASSY, HEAD (230AWR1) (*NOTE)	
HP101	A-2056-683-A	DECK (A) ASSY, HEAD (230PWR1) (*NOTE)	
HRPE101	A-2056-682-A	DECK (B) ASSY, HEAD (230AWR1) (*NOTE)	
HRPE101	A-2056-684-A	DECK (B) ASSY, HEAD (230PWR1) (*NOTE)	

(8) TAPE MECHANISM DECK SECTION-2
(TCM-230AWR1 TCM-230PWR1)

***NOTE:** Two types of parts which are not interchangeable are available for the mechanical block assembly. When replacing the parts, refer to the following figure, and use the appropriate part.*



Ref. No.	Part No.	Description	Remark
* 451	X-3374-214-3	CHASSIS ASSY, MAIN	
452	3-016-570-01	BELT (CAPSTAN)	
453	3-016-569-01	BELT (TENSION)	
454	3-017-360-01	BRACKET (MOTOR)	
455	X-3374-234-8	FLYWHEEL (FWD) ASSY	
456	X-3374-235-1	FLYWHEEL (REV) ASSY	
457	X-3374-238-1	PULLEY ASSY, TENSION	
458	3-024-405-01	BELT (FR2)	
459	A-2004-629-A	MECHANICAL BLOCK ASSY (230AWR1) (*NOTE)	
459	A-2004-630-A	MECHANICAL BLOCK ASSY (230PWR1) (*NOTE)	
460	3-016-566-01	SLIDER, REVERSE	
* 461	A-2007-732-A	LEAF SW BOARD, COMPLETE	
462	3-016-575-01	SPRING, TORSION	
463	3-019-208-01	WASHER, STOPPER	
464	3-027-453-01	SPRING (GROUND), TENSION	
M1	A-2004-628-A	MOTOR ASSY, CAPSTAN	

AUDIO

SECTION 9
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  CH : Chinese
  IA : Indonesia
  MY : Malaysia
  SP : Singapore
  TH : Thai
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和 ⚠ 标志来识别的零部件，在安全方面具有关键性，因此只能以规定号码的零部件来更换。

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	A-2007-731-A	AUDIO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C301	1-162-289-31	CERAMIC	390PF	10%	50V
C302	1-126-968-11	ELECT	100uF	20%	6.3V
C303	1-162-282-31	CERAMIC	100PF	10%	50V
C304	1-130-483-00	MYLAR	0.01uF	5%	50V
C305	1-107-715-11	ELECT	22uF	20%	16V
C311	1-162-289-31	CERAMIC	390PF	10%	50V
C313	1-162-282-31	CERAMIC	100PF	10%	50V
C314	1-130-487-00	MYLAR	0.022uF	5%	50V
C315	1-126-233-11	ELECT	22uF	20%	50V
C331	1-137-427-11	FILM	120PF	5%	50V
C332	1-162-288-31	CERAMIC	330PF	10%	50V
C333	1-162-209-31	CERAMIC	27PF	5%	50V
C401	1-162-289-31	CERAMIC	390PF	10%	50V
C402	1-126-968-11	ELECT	100uF	20%	6.3V
C403	1-162-282-31	CERAMIC	100PF	10%	50V
C404	1-130-483-00	MYLAR	0.01uF	5%	50V
C405	1-107-715-11	ELECT	22uF	20%	16V
C411	1-162-289-31	CERAMIC	390PF	10%	50V
C413	1-162-282-31	CERAMIC	100PF	10%	50V
C414	1-130-487-00	MYLAR	0.022uF	5%	50V
C415	1-126-233-11	ELECT	22uF	20%	50V
C431	1-137-427-11	FILM	120PF	5%	50V
C432	1-162-288-31	CERAMIC	330PF	10%	50V
C433	1-162-209-31	CERAMIC	27PF	5%	50V
C601	1-104-396-11	ELECT	10uF	20%	16V
C602	1-104-396-11	ELECT	10uF	20%	16V
C611	1-104-396-11	ELECT	10uF	20%	16V
C612	1-104-396-11	ELECT	10uF	20%	16V
C621	1-137-150-11	FILM	0.01uF	5%	100V
C622	1-126-961-11	ELECT	2.2uF	20%	50V
C623	1-136-155-00	FILM	0.015uF	5%	50V
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V
C627	1-124-903-11	ELECT	1uF	20%	50V
C628	1-136-153-00	FILM	0.01uF	5%	50V
C642	1-104-664-11	ELECT	47uF	20%	16V
		< CONNECTOR >			
CN601	1-695-338-11	PIN, CONNECTOR (PC BOARD) 15P			

Ref. No.	Part No.	Description			Remark
		< IC >			
IC601	8-759-111-44	IC uPC4570C-1			
IC602	8-759-143-54	IC uPC1330HA			
IC611	8-759-111-44	IC uPC4570C-1			
		< COIL >			
L331	1-410-780-11	INDUCTOR	27mH		
L431	1-410-780-11	INDUCTOR	27mH		
L601	1-414-193-41	INDUCTOR	220uH		
L602	1-414-193-41	INDUCTOR	220uH		
		< TRANSISTOR >			
Q621	8-729-142-46	TRANSISTOR	2SC2001-LK		
Q622	8-729-142-46	TRANSISTOR	2SC2001-LK		
Q623	8-729-801-93	TRANSISTOR	2SD1387		
		< RESISTOR >			
R301	1-247-881-00	CARBON	120K	5%	1/4W
R302	1-249-409-11	CARBON	220	5%	1/4W
R303	1-249-433-11	CARBON	22K	5%	1/4W
R304	1-247-889-00	CARBON	270K	5%	1/4W
R305	1-247-858-11	CARBON	13K	5%	1/4W
R311	1-247-881-00	CARBON	120K	5%	1/4W
R312	1-247-807-31	CARBON	100	5%	1/4W
R314	1-247-882-11	CARBON	130K	5%	1/4W
R315	1-247-850-11	CARBON	6.2K	5%	1/4W
R331	1-249-430-11	CARBON	12K	5%	1/4W
R401	1-247-881-00	CARBON	120K	5%	1/4W
R402	1-249-409-11	CARBON	220	5%	1/4W
R403	1-249-433-11	CARBON	22K	5%	1/4W
R404	1-247-889-00	CARBON	270K	5%	1/4W
R405	1-247-858-11	CARBON	13K	5%	1/4W
R411	1-247-881-00	CARBON	120K	5%	1/4W
R412	1-247-807-31	CARBON	100	5%	1/4W
R414	1-247-882-11	CARBON	130K	5%	1/4W
R415	1-247-850-11	CARBON	6.2K	5%	1/4W
R431	1-249-430-11	CARBON	12K	5%	1/4W
R601	1-249-409-11	CARBON	220	5%	1/4W
R602	1-249-409-11	CARBON	220	5%	1/4W
R608	1-249-409-11	CARBON	220	5%	1/4W
R609	1-249-433-11	CARBON	22K	5%	1/4W
R611	1-249-409-11	CARBON	220	5%	1/4W

Ref. No.	Part No.	Description			Remark
R612	1-249-409-11	CARBON	220	5%	1/4W
⚠R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W F
⚠R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W F
R623	1-249-432-11	CARBON	18K	5%	1/4W
R624	1-249-432-11	CARBON	18K	5%	1/4W
R625	1-249-429-11	CARBON	10K	5%	1/4W
		< VARIABLE RESISTOR >			
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV341	1-241-768-11	RES, ADJ, CARBON 220K			
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV441	1-241-768-11	RES, ADJ, CARBON 220K			
		< TRANSFORMER >			
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION			
**********					
*	A-4699-697-A	BD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C101	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C102	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C103	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C105	1-104-913-11	TANTAL. CHIP	10uF	20%	16V
C106	1-164-346-11	CERAMIC CHIP	1uF		16V
C107	1-164-346-11	CERAMIC CHIP	1uF		16V
C108	1-163-035-00	CERAMIC CHIP	0.047uF		50V
C109	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C110	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C111	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C112	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C113	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-126-607-11	ELECT CHIP	47uF	20%	4V
C117	1-126-209-11	ELECT CHIP	100uF	20%	4V
C118	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C119	1-163-091-00	CERAMIC CHIP	8PF		50V
C120	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C121	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C123	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C124	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C125	1-104-913-11	TANTAL. CHIP	10uF	20%	16V
C140	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C141	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C151	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C153	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C154	1-164-336-11	CERAMIC CHIP	0.33uF		25V
C156	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C157	1-163-145-00	CERAMIC CHIP	0.0015uF	5%	50V
C159	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C161	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C162	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
CN101	1-770-706-11	CONNECTOR, FFC/FPC 23P	
CN102	1-770-425-11	CONNECTOR, FFC/FPC 16P	
		< IC >	
IC101	8-752-369-78	IC CXD2545Q	
IC102	8-759-455-91	IC BA6392FP-E2	
IC103	8-752-072-45	IC CXA1821M-T6	
IC104	8-759-398-25	IC TC7SH04F (TE85L)	
		< TRANSISTOR >	
Q101	8-729-010-08	TRANSISTOR MSB710-R	
Q102	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q103	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
		< RESISTOR >	

R101	1-216-077-00	METAL CHIP	15K	5%	1/10W
R102	1-216-097-00	RES,CHIP	100K	5%	1/10W
R103	1-216-077-00	METAL CHIP	15K	5%	1/10W
R104	1-216-085-00	METAL CHIP	33K	5%	1/10W
R105	1-216-097-00	RES,CHIP	100K	5%	1/10W
R106	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R107	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R108	1-216-073-00	METAL CHIP	10K	5%	1/10W
R109	1-216-121-00	RES,CHIP	1M	5%	1/10W
R110	1-216-025-00	RES,CHIP	100	5%	1/10W
R112	1-216-049-11	RES,CHIP	1K	5%	1/10W
R123	1-216-073-00	METAL CHIP	10K	5%	1/10W
R124	1-216-097-00	RES,CHIP	100K	5%	1/10W
R125	1-216-033-00	METAL CHIP	220	5%	1/10W
R126	1-216-033-00	METAL CHIP	220	5%	1/10W
R127	1-216-033-00	METAL CHIP	220	5%	1/10W
R131	1-216-037-00	METAL CHIP	330	5%	1/10W
R134	1-216-049-11	RES,CHIP	1K	5%	1/10W
R141	1-216-089-00	RES,CHIP	47K	5%	1/10W
R142	1-216-081-00	METAL CHIP	22K	5%	1/10W
R143	1-216-103-00	METAL CHIP	180K	5%	1/10W
R144	1-216-103-00	METAL CHIP	180K	5%	1/10W
R146	1-216-073-00	METAL CHIP	10K	5%	1/10W
R147	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R148	1-216-001-00	METAL CHIP	10	5%	1/10W
R149	1-216-003-11	RES,CHIP	12	5%	1/10W
R150	1-216-025-00	RES,CHIP	100	5%	1/10W
R151	1-216-025-00	RES,CHIP	100	5%	1/10W
R152	1-216-073-00	METAL CHIP	10K	5%	1/10W
R153	1-216-073-00	METAL CHIP	10K	5%	1/10W
R154	1-216-025-00	RES,CHIP	100	5%	1/10W
R155	1-216-025-00	RES,CHIP	100	5%	1/10W
R156	1-216-025-00	RES,CHIP	100	5%	1/10W
R158	1-216-109-00	METAL CHIP	330K	5%	1/10W
R159	1-216-097-00	RES,CHIP	100K	5%	1/10W
R160	1-216-295-00	SHORT	0		
R161	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R162	1-216-101-00	METAL CHIP	150K	5%	1/10W
R171	1-216-025-00	RES,CHIP	100	5%	1/10W
R172	1-216-025-00	RES,CHIP	100	5%	1/10W
R173	1-216-025-00	RES,CHIP	100	5%	1/10W

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

BD | **CD SWITCH** | **CONNECTOR** | **CONT-PANEL**

Ref. No.	Part No.	Description			Remark
R175	1-216-025-00	RES,CHIP	100	5%	1/10W
R176	1-216-073-00	METAL CHIP	10K	5%	1/10W
R177	1-216-073-00	METAL CHIP	10K	5%	1/10W
R178	1-216-073-00	METAL CHIP	10K	5%	1/10W
R179	1-216-025-00	RES,CHIP	100	5%	1/10W
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT)			
**********					
*	1-668-268-11	CD SWITCH BOARD			
		**********			
		< DIODE >			
D631	8-719-056-13	LED SML79423C-TP15 (DISC 1)			
D632	8-719-056-13	LED SML79423C-TP15 (DISC 2)			
D633	8-719-056-13	LED SML79423C-TP15 (DISC 3)			
		< SHORT >			
JR901	1-216-296-00	SHORT	0		
JR902	1-216-295-00	SHORT	0		
		< TRANSISTOR >			
Q613	8-729-027-60	TRANSISTOR	DTC144TKA-T146		
Q614	8-729-027-60	TRANSISTOR	DTC144TKA-T146		
Q615	8-729-027-60	TRANSISTOR	DTC144TKA-T146		
		< RESISTOR >			
R656	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R657	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R658	1-216-063-00	RES, CHIP	3.9K	5%	1/10W
R659	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R660	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R691	1-216-027-00	METAL CHIP	120	5%	1/10W
R692	1-216-027-00	METAL CHIP	120	5%	1/10W
R693	1-216-027-00	METAL CHIP	120	5%	1/10W
R694	1-216-027-00	METAL CHIP	120	5%	1/10W
R695	1-216-027-00	METAL CHIP	120	5%	1/10W
R696	1-216-027-00	METAL CHIP	120	5%	1/10W
		< SWITCH >			
S637	1-762-875-21	SWITCH, KEYBOARD (**I**/⏻)			
S638	1-762-875-21	SWITCH, KEYBOARD (DISC 1)			
S639	1-762-875-21	SWITCH, KEYBOARD (DISC 2)			
S640	1-762-875-21	SWITCH, KEYBOARD (DISC 3)			
S641	1-762-875-21	SWITCH, KEYBOARD (DISC SKIP/EX-CHANGE)			
S642	1-762-875-21	SWITCH, KEYBOARD (⏏)			
**********					
*	1-658-575-11	CONNECTOR BOARD			
		**********			
		< CONNECTOR >			
* CN701	1-568-946-11	PIN, CONNECTOR 8P			
CN702	1-750-413-11	CONNECTOR, FFC/FPC 8P			

Ref. No.	Part No.	Description			Remark
		< TRANSISTOR >			
Q701	8-729-900-80	TRANSISTOR	DTC114ES		
		< RESISTOR >			
R703	1-249-435-11	CARBON	33K	5%	1/4W
R704	1-249-429-11	CARBON	10K	5%	1/4W
R705	1-249-417-11	CARBON	1K	5%	1/4W
**********					
*	A-4414-044-A	CONT-PANEL BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C627	1-163-021-00	CERAMIC CHIP	0.01uF	10%	50V
C628	1-163-021-00	CERAMIC CHIP	0.01uF	10%	50V
C629	1-163-021-00	CERAMIC CHIP	0.01uF	10%	50V
C630	1-163-021-00	CERAMIC CHIP	0.01uF	10%	50V
		< CONNECTOR >			
* CN608	1-568-862-11	SOCKET, CONNECTOR 19P			
		< DIODE >			
D610	8-719-063-93	LED	SLR325VC-N-T32 (ENTER/NEXT)		
D612	8-719-057-97	LED	SEL5923A-TP15 (GROOVE)		
D613	8-719-063-93	LED	SLR325VC-N-T32 (⏮ ⟷ ⏭, DJ MIX (JOG))		
D614	8-719-064-65	LED	SELU5723C-TP15 (DJ MIX)		
D615	8-719-064-65	LED	SELU5723C-TP15 (DJ MIX)		
D616	8-719-063-93	LED	SLR325VC-N-T32 (CD NON-STOP)		
D617	8-719-057-97	LED	SEL5923A-TP15 (–, ◀◀)		
D618	8-719-057-97	LED	SEL5923A-TP15 (+, ▶▶)		
D801	8-719-057-97	LED	SEL5923A-TP15 (BEAT, ON/OFF)		
D802	8-719-057-97	LED	SEL5923A-TP15 (BEAT, JAM)		
D803	8-719-056-13	LED	SML79423C-TP15 (AUTO BPM)		
		< TRANSISTOR >			
Q604	8-729-027-60	TRANSISTOR	DTC144TKA-T146		
Q854	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q855	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
		< RESISTOR >			
R637	1-216-039-00	METAL CHIP	390	5%	1/10W
R638	1-216-041-00	METAL CHIP	470	5%	1/10W
R639	1-216-045-00	METAL CHIP	680	5%	1/10W
R640	1-216-047-00	RES, CHIP	820	5%	1/10W
R641	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R642	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R643	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R644	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R645	1-216-063-00	RES, CHIP	3.9K	5%	1/10W
R646	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R647	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R648	1-216-075-00	METAL CHIP	12K	5%	1/10W
R666	1-216-037-00	METAL CHIP	330	5%	1/10W
R667	1-216-029-00	METAL CHIP	150	5%	1/10W
R668	1-216-027-00	METAL CHIP	120	5%	1/10W
R669	1-216-019-00	METAL CHIP	56	5%	1/10W

Ref. No.	Part No.	Description			Remark
R670	1-216-037-00	METAL CHIP	330	5%	1/10W
R671	1-216-031-00	METAL CHIP	180	5%	1/10W
R811	1-216-029-00	METAL CHIP	150	5%	1/10W
R812	1-216-029-00	METAL CHIP	150	5%	1/10W
R813	1-216-029-00	METAL CHIP	150	5%	1/10W
R814	1-216-029-00	METAL CHIP	150	5%	1/10W
R821	1-216-039-00	METAL CHIP	390	5%	1/10W
R822	1-216-041-00	METAL CHIP	470	5%	1/10W
R823	1-216-045-00	METAL CHIP	680	5%	1/10W
R831	1-216-039-00	METAL CHIP	390	5%	1/10W
R832	1-216-041-00	METAL CHIP	470	5%	1/10W
R833	1-216-045-00	METAL CHIP	680	5%	1/10W
		< SWITCH >			
S601	1-473-534-11	ENCODER, ROTARY (⏮ ⟷ ⏭, DJ MIX (JOG))			
S602	1-473-392-11	ENCODER, ROTARY (VOLUME)			
S617	1-762-875-21	SWITCH, KEYBOARD (CD LOOP)			
S618	1-762-875-21	SWITCH, KEYBOARD (CD FLASH)			
S619	1-762-875-21	SWITCH, KEYBOARD (CD NON-STOP)			
S621	1-762-875-21	SWITCH, KEYBOARD (–, ◀◀)			
S622	1-762-875-21	SWITCH, KEYBOARD (ENTER/NEXT)			
S623	1-762-875-21	SWITCH, KEYBOARD (+, ▶▶)			
S624	1-762-875-21	SWITCH, KEYBOARD (DBFB)			
S625	1-762-875-21	SWITCH, KEYBOARD (GROOVE)			
S626	1-762-875-21	SWITCH, KEYBOARD (ACTIVE)			
S627	1-762-875-21	SWITCH, KEYBOARD (SELECT)			
S628	1-762-875-21	SWITCH, KEYBOARD (RETURN)			
S629	1-762-875-21	SWITCH, KEYBOARD (PREV)			
S630	1-762-875-21	SWITCH, KEYBOARD (NEXT)			
S801	1-762-875-21	SWITCH, KEYBOARD (PAD B)			
S802	1-762-875-21	SWITCH, KEYBOARD (BEAT LEVEL)			
S803	1-762-875-21	SWITCH, KEYBOARD (BEAT JAM)			
S804	1-762-875-21	SWITCH, KEYBOARD (AUTO BPM)			
S805	1-762-875-21	SWITCH, KEYBOARD (PAD A)			
S806	1-762-875-21	SWITCH, KEYBOARD (BEAT ON/OFF)			
S807	1-762-875-21	SWITCH, KEYBOARD (BEAT SELECT)			
S808	1-762-875-21	SWITCH, KEYBOARD (BEAT SPEED)			
		< LEAD >			
W601	1-775-377-61	LEAD (WITH CONNECTOR)			

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*	1-668-269-11	DECORATION BOARD			
		**********			
		< DIODE >			
D640	8-719-063-93	LED SLR325VC-N-T32 (DECORATION (CENTER))			
D641	8-719-032-86	LED SEL5420E (DECORATION (LEFT))			
D642	8-719-032-86	LED SEL5420E (DECORATION (LEFT))			
D643	8-719-032-86	LED SEL5420E (DECORATION (CENTER))			
D644	8-719-033-06	LED SEL5920A (DECORATION (CENTER))			
D655	8-719-033-06	LED SEL5920A (DECORATION (RIGHT))			
D656	8-719-033-06	LED SEL5920A (DECORATION (RIGHT))			
		< TRANSISTOR >			
Q856	8-729-027-60	TRANSISTOR DTC144TKA-T146			
Q857	8-729-027-60	TRANSISTOR DTC144TKA-T146			
		< RESISTOR >			
R706	1-216-019-00	METAL CHIP	56	5%	1/10W
R707	1-216-019-00	METAL CHIP	56	5%	1/10W
R708	1-216-041-00	METAL CHIP	470	5%	1/10W
R709	1-216-027-00	METAL CHIP	120	5%	1/10W
R710	1-216-027-00	METAL CHIP	120	5%	1/10W

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*	1-668-271-11	HEADPHONE BOARD			
		**********			
		< CAPACITOR >			
C790	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C791	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C792	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN752	1-506-469-11	PIN, CONNECTOR 4P			
		< EARTH TERMINAL >			
* EP751	1-537-738-21	TERMINAL, EARTH			
		< JACK >			
J755	1-785-200-11	JACK (LARGE TYPE) (PHONES)			

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*	A-2007-732-A	LEAF SW BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1001	1-107-716-11	ELECT	33uF	20%	10V
		< CONNECTOR >			
CN1001	1-784-459-11	CONNECTOR, FFC/FPC 17P			
		< DIODE >			
D1001	8-719-911-19	DIODE 1SS119			
D1002	8-719-911-19	DIODE 1SS119			
		< CONNECTOR >			
* DM1001	1-784-581-11	HOLDER, CABLE (2.5MM PITCH) 4P			
		< PHOTO INTERRUPTER >			
IC1001	8-749-014-38	PHOTO INTERRUPTER SG-264			
IC1002	8-749-014-38	PHOTO INTERRUPTER SG-264			
		< TRANSISTOR >			
Q1001	8-729-029-56	TRANSISTOR DTA144ESA			
		< RESISTOR >			
R907	1-247-879-11	CARBON	100K	5%	1/4W
R1001	1-249-409-11	CARBON	220	5%	1/4W
R1002	1-249-409-11	CARBON	220	5%	1/4W
R1003	1-249-414-11	CARBON	560	5%	1/4W

LEAF SW | MAIN

Ref. No.	Part No.	Description			Remark
R1004	1-247-834-11	CARBON	1.3K	5%	1/4W
R1005	1-247-818-11	CARBON	300	5%	1/4W
R1006	1-247-864-11	CARBON	24K	5%	1/4W
R1007	1-247-856-00	CARBON	11K	5%	1/4W
R1008	1-249-417-11	CARBON	1K	5%	1/4W
		< VARIABLE RESISTOR >			
RV1001	1-241-785-11	RES, ADJ, CARBON 10K			
RV1002	1-241-785-11	RES, ADJ, CARBON 10K			
		< SWITCH >			
S1001	1-570-953-11	SWITCH, PUSH (1 KEY) (A PLAY)			
S1002	1-570-953-11	SWITCH, PUSH (1 KEY) (B PLAY)			
S1003	1-771-333-11	SWITCH, LEAF (A HALF)			
S1004	1-771-205-11	SWITCH, LEAF (A 120/70)			
S1005	1-771-205-11	SWITCH, LEAF (REC A)			
S1006	1-771-333-11	SWITCH, LEAF (B HALF)			
S1008	1-771-205-11	SWITCH, LEAF (B 120/70)			
S1009	1-771-205-11	SWITCH, LEAF (REC B)			
**********					
*	A-4414-052-A	MAIN BOARD, COMPLETE (MY, SP, IA)			
*	A-4414-056-A	MAIN BOARD, COMPLETE (CH)			
*	A-4414-637-A	MAIN BOARD, COMPLETE (TH)			
		**********			
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C101	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C102	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C103	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C111	1-137-195-11	FILM	0.56uF	5%	50V
C112	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V
C113	1-136-167-00	FILM	0.15uF	5%	50V
C114	1-163-018-00	CERAMIC CHIP	0.0056uF	5%	50V
C115	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C116	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C117	1-163-021-00	CERAMIC CHIP	0.01uF	10%	50V
C118	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C119	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C120	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C121	1-126-964-11	ELECT	10uF	20%	50V
C122	1-163-006-11	CERAMIC CHIP	560PF	10%	50V
C123	1-136-169-00	FILM	0.22uF	5%	50V
C124	1-136-169-00	FILM	0.22uF	5%	50V
C125	1-126-964-11	ELECT	10uF	20%	50V
C131	1-104-665-11	ELECT	100uF	20%	10V
C132	1-104-665-11	ELECT	100uF	20%	10V
C133	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C134	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C135	1-126-964-11	ELECT	10uF	20%	50V
C136	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C137	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C141	1-109-953-11	ELECT	2.2uF	20%	50V
C151	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C152	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C153	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C154	1-216-295-00	SHORT	0		

Ref. No.	Part No.	Description			Remark
C161	1-137-195-11	FILM	0.56uF	5%	50V
C162	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V
C163	1-136-167-00	FILM	0.15uF	5%	50V
C164	1-163-018-00	CERAMIC CHIP	0.0056uF	5%	50V
C165	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C166	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C167	1-163-021-00	CERAMIC CHIP	0.01uF	10%	50V
C168	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C169	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C170	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C171	1-126-964-11	ELECT	10uF	20%	50V
C172	1-163-006-11	CERAMIC CHIP	560PF	10%	50V
C173	1-136-169-00	FILM	0.22uF	5%	50V
C174	1-136-169-00	FILM	0.22uF	5%	50V
C175	1-126-964-11	ELECT	10uF	20%	50V
C176	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C177	1-163-021-00	CERAMIC CHIP	0.01uF	10%	50V
C191	1-126-964-11	ELECT	10uF	20%	50V
C192	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C193	1-126-964-11	ELECT	10uF	20%	50V
C194	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C195	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C196	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C197	1-216-295-00	SHORT	0		
C201	1-136-165-00	FILM	0.1uF	5%	50V
C202	1-136-165-00	FILM	0.1uF	5%	50V
C203	1-126-964-11	ELECT	10uF	20%	50V
C204	1-126-964-11	ELECT	10uF	20%	50V
C205	1-126-964-11	ELECT	10uF	20%	50V
C206	1-126-964-11	ELECT	10uF	20%	50V
C207	1-126-934-11	ELECT	220uF	20%	10V
C208	1-126-934-11	ELECT	220uF	20%	16V
C209	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C210	1-126-961-11	ELECT	2.2uF	20%	50V
C211	1-126-934-11	ELECT	220uF	20%	10V
C212	1-126-961-11	ELECT	2.2uF	20%	50V
C213	1-126-964-11	ELECT	10uF	20%	50V
C214	1-126-964-11	ELECT	10uF	20%	50V
C215	1-126-934-11	ELECT	220uF	20%	16V
C216	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C217	1-136-165-00	FILM	0.1uF	5%	50V
C218	1-126-960-11	ELECT	1uF	20%	50V
C219	1-126-961-11	ELECT	2.2uF	20%	50V
C220	1-126-960-11	ELECT	1uF	20%	50V
C221	1-136-165-00	FILM	0.1uF	5%	50V
C222	1-126-961-11	ELECT	2.2uF	20%	50V
C223	1-124-252-00	ELECT	0.33uF	20%	50V
C224	1-126-959-11	ELECT	0.47uF	20%	50V
C225	1-136-164-00	FILM	0.082uF	5%	50V
C226	1-130-477-00	MYLAR	0.0033uF	5%	50V
C227	1-136-164-00	FILM	0.082uF	5%	50V
C228	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C229	1-126-934-11	ELECT	220uF	20%	10V
C230	1-130-469-00	MYLAR	680PF	5%	50V
C231	1-136-161-00	FILM	0.047uF	5%	50V
C232	1-136-157-00	FILM	0.022uF	5%	50V
C233	1-136-173-00	FILM	0.47uF	5%	50V

Ref. No.	Part No.	Description			Remark
C234	1-104-664-11	ELECT	47uF	20%	10V
C235	1-126-961-11	ELECT	2.2uF	20%	50V
C236	1-126-961-11	ELECT	2.2uF	20%	50V
C237	1-136-165-00	FILM	0.1uF	5%	50V
C238	1-136-165-00	FILM	0.1uF	5%	50V
C239	1-126-959-11	ELECT	0.47uF	20%	50V
C240	1-126-963-11	ELECT	4.7uF	20%	50V
C241	1-126-959-11	ELECT	0.47uF	20%	50V
C242	1-126-963-11	ELECT	4.7uF	20%	50V
C243	1-136-167-00	FILM	0.15uF	5%	50V
C244	1-126-962-11	ELECT	3.3uF	20%	50V
C245	1-136-167-00	FILM	0.15uF	5%	50V
C246	1-136-167-00	FILM	0.15uF	5%	50V
C247	1-126-962-11	ELECT	3.3uF	20%	50V
C248	1-136-167-00	FILM	0.15uF	5%	50V
C249	1-126-963-11	ELECT	4.7uF	20%	50V
C250	1-126-959-11	ELECT	0.47uF	20%	50V
C251	1-126-963-11	ELECT	4.7uF	20%	50V
C252	1-126-959-11	ELECT	0.47uF	20%	50V
C254	1-126-934-11	ELECT	220uF	20%	16V
C255	1-136-165-00	FILM	0.1uF	5%	50V
C256	1-126-934-11	ELECT	220uF	20%	16V
C291	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C292	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C293	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C294	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C295	1-126-964-11	ELECT	10uF	20%	50V
C296	1-126-964-11	ELECT	10uF	20%	50V
C301	1-126-960-11	ELECT	1uF	20%	50V
C302	1-130-479-00	MYLAR	0.0047uF	5%	50V
C303	1-136-165-00	FILM	0.1uF	5%	50V
C304	1-136-165-00	FILM	0.1uF	5%	50V
C305	1-126-964-11	ELECT	10uF	20%	50V
C306	1-126-960-11	ELECT	1uF	20%	50V
C307	1-126-959-11	ELECT	0.47uF	20%	50V
C308	1-126-964-11	ELECT	10uF	20%	50V
C309	1-136-173-00	FILM	0.47uF	5%	50V
C310	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C311	1-126-964-11	ELECT	10uF	20%	50V
C312	1-126-959-11	ELECT	0.47uF	20%	50V
C313	1-130-471-00	MYLAR	0.001uF	5%	50V
C314	1-126-964-11	ELECT	10uF	20%	50V
C315	1-126-963-11	ELECT	4.7uF	20%	50V
C316	1-104-665-11	ELECT	100uF	20%	10V
C317	1-104-665-11	ELECT	100uF	20%	10V
C320	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C331	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C332	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C333	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C334	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C351	1-126-960-11	ELECT	1uF	20%	50V
C352	1-130-479-00	MYLAR	0.0047uF	5%	50V
C353	1-136-165-00	FILM	0.1uF	5%	50V
C354	1-136-165-00	FILM	0.1uF	5%	50V
C355	1-126-964-11	ELECT	10uF	20%	50V
C356	1-126-960-11	ELECT	1uF	20%	50V
C357	1-126-959-11	ELECT	0.47uF	20%	50V

Ref. No.	Part No.	Description			Remark
C358	1-126-964-11	ELECT	10uF	20%	50V
C359	1-136-173-00	FILM	0.47uF	5%	50V
C371	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C372	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C373	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C374	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C378	1-126-935-11	ELECT	470uF	20%	6.3V
C382	1-126-925-11	ELECT	470uF	20%	10V
C383	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C384	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C385	1-126-961-11	ELECT	2.2uF	20%	50V
C386	1-126-961-11	ELECT	2.2uF	20%	50V
C389	1-126-935-11	ELECT	470uF	20%	6.3V
C390	1-126-935-11	ELECT	470uF	20%	6.3V
C391	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C392	1-104-665-11	ELECT	100uF	20%	10V
C401	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C402	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C403	1-126-964-11	ELECT	10uF	20%	50V
C411	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C412	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C414	1-126-964-11	ELECT	10uF	20%	50V
C415	1-126-964-11	ELECT	10uF	20%	50V
C501	1-126-916-11	ELECT	1000uF	20%	6.3V
C502	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C503	1-163-234-11	CERAMIC CHIP	20PF	5%	50V
C504	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C505	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C506	1-104-665-11	ELECT	100uF	20%	10V
C508	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C901	1-111-235-61	ELECT	10000uF	20%	25V
C902	1-126-943-11	ELECT	2200uF	20%	25V
C903	1-126-964-11	ELECT	10uF	20%	50V
C904	1-126-964-11	ELECT	10uF	20%	50V
C905	1-104-665-11	ELECT	100uF	20%	10V
C906	1-104-665-11	ELECT	100uF	20%	10V
C907	1-126-925-11	ELECT	470uF	20%	10V
C908	1-126-925-11	ELECT	470uF	20%	10V
C911	1-126-964-11	ELECT	10uF	20%	50V
C912	1-126-768-11	ELECT	2200uF	20%	16V
C921	1-126-964-11	ELECT	10uF	20%	50V
C922	1-126-767-11	ELECT	1000uF	20%	16V
C931	1-126-964-11	ELECT	10uF	20%	50V
C932	1-126-916-11	ELECT	1000uF	20%	6.3V
C933	1-126-916-11	ELECT	1000uF	20%	6.3V
C934	1-104-665-11	ELECT	100uF	20%	10V
C935	1-126-964-11	ELECT	10uF	20%	50V
C936	1-126-916-11	ELECT	1000uF	20%	6.3V
C937	1-126-925-11	ELECT	470uF	20%	10V
C941	1-126-964-11	ELECT	10uF	20%	50V
C942	1-104-665-11	ELECT	100uF	20%	10V
C951	1-104-664-11	ELECT	47uF	20%	10V
C952	1-136-165-00	FILM	0.1uF	5%	50V
C953	1-136-173-00	FILM	0.47uF	5%	50V
C961	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C991	1-216-295-00	SHORT	0		

MAIN

Ref. No.	Part No.	Description	Remark
		< CONNECTOR >	
* CN101	1-568-832-11	SOCKET, CONNECTOR 13P	
CN102	1-784-600-11	SOCKET, CONNECTOR (NON ZIF)15P	(EXCEPT TH)
CN102	1-784-601-11	SOCKET, CONNECTOR (NON ZIF)13P (TH)	
* CN103	1-568-946-11	PIN, CONNECTOR 8P	
* CN104	1-568-947-11	PIN, CONNECTOR 9P	
* CN105	1-568-856-11	SOCKET, CONNECTOR 13P	
CN106	1-568-834-11	SOCKET, CONNECTOR 15P	
* CN107	1-568-836-11	SOCKET, CONNECTOR 17P	
* CN301	1-568-449-11	HOUSING, CONNECTOR(PC BOARD)3P	
CN901	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P	
CN902	1-770-728-11	CONNECTOR, BOARD TO BOARD 9P	
* CN961	1-564-518-11	PLUG, CONNECTOR 3P	
		< DIODE >	
D502	8-719-988-62	DIODE 1SS355	
D508	8-719-988-62	DIODE 1SS355	
D901	8-719-988-62	DIODE 1SS355	
D931	8-719-988-62	DIODE 1SS355	
D932	8-719-210-33	DIODE EC10DS2	
D951	8-719-988-62	DIODE 1SS355	
D952	8-719-988-62	DIODE 1SS355	
D953	8-719-988-62	DIODE 1SS355	
D954	8-719-988-62	DIODE 1SS355	
D955	8-719-210-33	DIODE EC10DS2	
D956	8-719-988-62	DIODE 1SS355	
		< GROUND PLATE >	
* EPT901	4-870-539-11	PLATE, GROUND	
		< FILTER >	
FL131	1-233-289-21	FILTER, EMI (SMD)	
FL241	1-233-289-21	FILTER, EMI (SMD)	
FL501	1-233-289-21	FILTER, EMI (SMD)	
FL502	1-233-289-21	FILTER, EMI (SMD)	
		< IC >	
IC111	8-759-495-24	IC M62442FP-TP	
IC191	8-759-636-55	IC M5218AFP	
IC201	8-759-526-39	IC LV1041M	
IC291	8-759-636-55	IC M5218AFP	
IC301	8-759-495-26	IC HA12215	
IC391	8-749-923-04	IC TOTX178 (CD DIGITAL OUT, OPTICAL)	
IC401	8-759-636-55	IC M5218AFP	
IC411	8-759-636-55	IC M5218AFP	
IC501	8-759-546-35	IC uPD780016AYGF-014-3BA	
IC901	8-759-450-49	IC BA07T	
IC902	8-759-604-90	IC M5F7907L	
IC911	8-759-231-58	IC TA7812S	
IC921	8-759-604-38	IC M5F78M10	
IC931	8-759-231-53	IC TA7805S	
IC932	8-759-231-53	IC TA7805S	
IC941	8-759-450-49	IC BA07T	
IC951	8-759-635-63	IC M51943BSL	

Ref. No.	Part No.	Description	Remark
		< JACK >	
J101	1-774-411-11	JACK, PIN 6P (VIDE0 (AUDIO) IN, MD IN/OUT)	
J191	1-774-785-11	JACK, PIN 1P (SUPER WOOFER)	
		< SHORT >	
JR1	1-216-295-00	SHORT 0	
JR2	1-216-295-00	SHORT 0	
JR4	1-216-295-00	SHORT 0	
JR5	1-216-295-00	SHORT 0	
JR201	1-216-296-00	SHORT 0	
JR202	1-216-296-00	SHORT 0	
		< COIL >	
L201	1-412-473-21	INDUCTOR 0uH	
L241	1-412-032-11	INDUCTOR CHIP 100uH	
L372	1-412-032-11	INDUCTOR CHIP 100uH	
L391	1-412-032-11	INDUCTOR CHIP 100uH	
L569	1-412-032-11	INDUCTOR CHIP 100uH	
L570	1-412-032-11	INDUCTOR CHIP 100uH	
L572	1-412-032-11	INDUCTOR CHIP 100uH	
		< TRANSISTOR >	
Q111	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q112	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q113	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q141	8-729-422-57	TRANSISTOR UN4111	
Q142	8-729-900-36	TRANSISTOR DTC124ES	
Q143	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q161	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q162	8-729-119-78	TRANSISTOR 2SC403SP-51	
Q163	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q191	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q291	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q292	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q331	8-729-118-00	TRANSISTOR 2SB1116-L	
Q332	8-729-900-80	TRANSISTOR DTC114ES	
Q333	8-729-118-00	TRANSISTOR 2SB1116-L	
Q334	8-729-900-80	TRANSISTOR DTC114ES	
Q335	8-729-900-80	TRANSISTOR DTC114ES	
Q336	8-729-116-59	TRANSISTOR 2SB1068TP	
Q337	8-729-045-21	TRANSISTOR 2SD1513TP-LK	
Q338	8-729-422-57	TRANSISTOR UN4111	
Q339	8-729-900-80	TRANSISTOR DTC114ES	
Q340	8-729-116-59	TRANSISTOR 2SB1068TP	
Q341	8-729-045-21	TRANSISTOR 2SD1513TP-LK	
Q342	8-729-422-57	TRANSISTOR UN4111	
Q343	8-729-900-80	TRANSISTOR DTC114ES	
Q411	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q901	8-729-040-20	TRANSISTOR RT1P137L-TP	
Q902	8-729-900-36	TRANSISTOR DTC124ES	
Q903	8-729-040-19	TRANSISTOR RT1N137L-TP	
Q904	8-729-900-63	TRANSISTOR DTA124ES	
Q905	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q911	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q912	8-729-900-36	TRANSISTOR DTC124ES	
Q913	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q931	8-729-040-20	TRANSISTOR RT1P137L-TP	

Ref. No.	Part No.	Description			Remark
Q932	8-729-900-36	TRANSISTOR	DTC124ES		
Q933	8-729-040-20	TRANSISTOR	RT1P137L-TP		
Q934	8-729-900-63	TRANSISTOR	DTA124ES		
Q935	8-729-141-83	TRANSISTOR	2SB1094-LK		
Q936	8-729-900-36	TRANSISTOR	DTC124ES		
Q937	8-729-900-36	TRANSISTOR	DTC124ES		
Q951	8-729-119-78	TRANSISTOR	2SC403SP-51		
Q961	8-729-111-29	TRANSISTOR	2SD1616A-K		
Q962	8-729-119-76	TRANSISTOR	2SA1175-HFE		
		< RESISTOR >			
R101	1-216-049-11	RES, CHIP	1K	5%	1/10W
R102	1-216-105-00	RES, CHIP	220K	5%	1/10W
R103	1-216-049-11	RES, CHIP	1K	5%	1/10W
R104	1-216-105-00	RES, CHIP	220K	5%	1/10W
R105	1-216-049-11	RES, CHIP	1K	5%	1/10W
R106	1-216-097-00	RES, CHIP	100K	5%	1/10W
R111	1-216-073-00	METAL CHIP	10K	5%	1/10W
R112	1-216-121-00	RES, CHIP	1M	5%	1/10W
R113	1-216-111-00	METAL CHIP	390K	5%	1/10W
R114	1-216-044-00	METAL CHIP	620	5%	1/10W
R115	1-216-073-00	METAL CHIP	10K	5%	1/10W
R116	1-216-097-00	RES, CHIP	100K	5%	1/10W
R117	1-216-073-00	METAL CHIP	10K	5%	1/10W
R118	1-216-089-00	RES, CHIP	47K	5%	1/10W
R119	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R120	1-216-097-00	RES, CHIP	100K	5%	1/10W
R121	1-216-073-00	METAL CHIP	10K	5%	1/10W
R122	1-216-295-00	SHORT	0		
R123	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R131	1-216-025-00	RES, CHIP	100	5%	1/10W
R132	1-216-025-00	RES, CHIP	100	5%	1/10W
R133	1-216-025-00	RES, CHIP	100	5%	1/10W
R134	1-216-089-00	RES, CHIP	47K	5%	1/10W
R135	1-216-089-00	RES, CHIP	47K	5%	1/10W
R136	1-216-089-00	RES, CHIP	47K	5%	1/10W
R137	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R138	1-216-089-00	RES, CHIP	47K	5%	1/10W
R141	1-216-049-11	RES, CHIP	1K	5%	1/10W
R142	1-216-097-00	RES, CHIP	100K	5%	1/10W
R143	1-216-049-11	RES, CHIP	1K	5%	1/10W
R144	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R151	1-216-049-11	RES, CHIP	1K	5%	1/10W
R152	1-216-105-00	RES, CHIP	220K	5%	1/10W
R153	1-216-049-11	RES, CHIP	1K	5%	1/10W
R154	1-216-105-00	RES, CHIP	220K	5%	1/10W
R155	1-216-049-11	RES, CHIP	1K	5%	1/10W
R156	1-216-097-00	RES, CHIP	100K	5%	1/10W
R161	1-216-073-00	METAL CHIP	10K	5%	1/10W
R162	1-216-121-00	RES, CHIP	1M	5%	1/10W
R163	1-216-111-00	METAL CHIP	390K	5%	1/10W
R164	1-216-044-00	METAL CHIP	620	5%	1/10W
R165	1-216-073-00	METAL CHIP	10K	5%	1/10W
R166	1-216-097-00	RES, CHIP	100K	5%	1/10W
R167	1-216-073-00	METAL CHIP	10K	5%	1/10W
R168	1-216-089-00	RES, CHIP	47K	5%	1/10W
R169	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R170	1-216-097-00	RES, CHIP	100K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R171	1-216-073-00	METAL CHIP	10K	5%	1/10W
R172	1-216-295-00	SHORT	0		
R173	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R191	1-216-089-00	RES, CHIP	47K	5%	1/10W
R192	1-216-089-00	RES, CHIP	47K	5%	1/10W
R193	1-216-089-00	RES, CHIP	47K	5%	1/10W
R194	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R195	1-216-073-00	METAL CHIP	10K	5%	1/10W
R196	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R197	1-216-097-00	RES, CHIP	100K	5%	1/10W
R198	1-216-049-11	RES, CHIP	1K	5%	1/10W
R199	1-216-073-00	METAL CHIP	10K	5%	1/10W
R201	1-216-081-00	METAL CHIP	22K	5%	1/10W
R202	1-216-082-00	RES, CHIP	24K	5%	1/10W
R203	1-216-689-11	METAL CHIP	39K	0.5%	1/10W
R204	1-216-121-00	RES, CHIP	1M	5%	1/10W
R205	1-216-033-00	METAL CHIP	220	5%	1/10W
R206	1-216-025-00	RES, CHIP	100	5%	1/10W
R207	1-216-025-00	RES, CHIP	100	5%	1/10W
R208	1-216-025-00	RES, CHIP	100	5%	1/10W
R209	1-216-025-00	RES, CHIP	100	5%	1/10W
R251	1-216-049-11	RES, CHIP	1K	5%	1/10W
R252	1-216-049-11	RES, CHIP	1K	5%	1/10W
R253	1-216-097-00	RES, CHIP	100K	5%	1/10W
R254	1-216-097-00	RES, CHIP	100K	5%	1/10W
R255	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R256	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R257	1-216-025-00	RES, CHIP	100	5%	1/10W
R258	1-216-025-00	RES, CHIP	100	5%	1/10W
R259	1-216-085-00	METAL CHIP	33K	5%	1/10W
R260	1-216-085-00	METAL CHIP	33K	5%	1/10W
R261	1-216-073-00	METAL CHIP	10K	5%	1/10W
R262	1-216-073-00	METAL CHIP	10K	5%	1/10W
R263	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R264	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R301	1-216-085-00	METAL CHIP	33K	5%	1/10W
R302	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R303	1-216-025-00	RES, CHIP	100	5%	1/10W
R304	1-216-025-00	RES, CHIP	100	5%	1/10W
R305	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R306	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R307	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R308	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R309	1-216-081-00	METAL CHIP	22K	5%	1/10W
R311	1-216-121-00	RES, CHIP	1M	5%	1/10W
R312	1-216-102-00	RES, CHIP	160K	5%	1/10W
R313	1-216-097-00	RES, CHIP	100K	5%	1/10W
R315	1-216-073-00	METAL CHIP	10K	5%	1/10W
R316	1-216-079-00	METAL CHIP	18K	5%	1/10W
R317	1-216-073-00	METAL CHIP	10K	5%	1/10W
R318	1-216-073-00	METAL CHIP	10K	5%	1/10W
R319	1-216-111-00	METAL CHIP	390K	5%	1/10W
R321	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R322	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R324	1-216-094-00	RES, CHIP	75K	5%	1/10W
R325	1-216-089-00	RES, CHIP	47K	5%	1/10W
R326	1-216-089-00	RES, CHIP	47K	5%	1/10W
R327	1-216-089-00	RES, CHIP	47K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R328	1-216-094-00	RES, CHIP	75K	5%	1/10W
R329	1-216-049-11	RES, CHIP	1K	5%	1/10W
R330	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R331	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R332	1-216-045-00	METAL CHIP	680	5%	1/10W
R333	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R334	1-216-045-00	METAL CHIP	680	5%	1/10W
R335	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R336	1-216-089-00	RES, CHIP	47K	5%	1/10W
R337	1-216-049-11	RES, CHIP	1K	5%	1/10W
R338	1-216-037-00	METAL CHIP	330	5%	1/10W
R339	1-216-089-00	RES, CHIP	47K	5%	1/10W
R340	1-216-089-00	RES, CHIP	47K	5%	1/10W
R341	1-216-037-00	METAL CHIP	330	5%	1/10W
R342	1-216-089-00	RES, CHIP	47K	5%	1/10W
R343	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R344	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R351	1-216-085-00	METAL CHIP	33K	5%	1/10W
R352	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R353	1-216-025-00	RES, CHIP	100	5%	1/10W
R354	1-216-025-00	RES, CHIP	100	5%	1/10W
R355	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R356	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R357	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R358	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R359	1-216-085-00	METAL CHIP	33K	5%	1/10W
R371	1-216-049-11	RES, CHIP	1K	5%	1/10W
R372	1-216-049-11	RES, CHIP	1K	5%	1/10W
R381	1-216-025-00	RES, CHIP	100	5%	1/10W
R382	1-216-025-00	RES, CHIP	100	5%	1/10W
R383	1-216-085-00	METAL CHIP	33K	5%	1/10W
R384	1-216-085-00	METAL CHIP	33K	5%	1/10W
R385	1-216-085-00	METAL CHIP	33K	5%	1/10W
R401	1-216-073-00	METAL CHIP	10K	5%	1/10W
R402	1-216-073-00	METAL CHIP	10K	5%	1/10W
R403	1-216-073-00	METAL CHIP	10K	5%	1/10W
R404	1-216-073-00	METAL CHIP	10K	5%	1/10W
R411	1-216-073-00	METAL CHIP	10K	5%	1/10W
R412	1-216-049-11	RES, CHIP	1K	5%	1/10W
R413	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R414	1-216-073-00	METAL CHIP	10K	5%	1/10W
R416	1-216-073-00	METAL CHIP	10K	5%	1/10W
R417	1-216-073-00	METAL CHIP	10K	5%	1/10W
R418	1-216-073-00	METAL CHIP	10K	5%	1/10W
R419	1-216-097-00	RES, CHIP	100K	5%	1/10W
R420	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R506	1-216-025-00	RES, CHIP	100	5%	1/10W
R508	1-216-025-00	RES, CHIP	100	5%	1/10W
R513	1-216-109-00	METAL CHIP	330K	5%	1/10W
R526	1-216-025-00	RES, CHIP	100	5%	1/10W
R527	1-216-025-00	RES, CHIP	100	5%	1/10W
R555	1-216-025-00	RES, CHIP	100	5%	1/10W
R556	1-216-025-00	RES, CHIP	100	5%	1/10W
R557	1-216-025-00	RES, CHIP	100	5%	1/10W
R560	1-216-025-00	RES, CHIP	100	5%	1/10W
R561	1-216-025-00	RES, CHIP	100	5%	1/10W
R563	1-216-025-00	RES, CHIP	100	5%	1/10W
R564	1-216-025-00	RES, CHIP	100	5%	1/10W
R565	1-216-025-00	RES, CHIP	100	5%	1/10W
R566	1-216-025-00	RES, CHIP	100	5%	1/10W
R567	1-216-025-00	RES, CHIP	100	5%	1/10W
R568	1-216-025-00	RES, CHIP	100	5%	1/10W
R572	1-216-041-00	METAL CHIP	470	5%	1/10W
R575	1-216-025-00	RES, CHIP	100	5%	1/10W
R576	1-216-025-00	RES, CHIP	100	5%	1/10W
R578	1-216-025-00	RES, CHIP	100	5%	1/10W
R579	1-216-025-00	RES, CHIP	100	5%	1/10W
R580	1-216-025-00	RES, CHIP	100	5%	1/10W
R581	1-216-025-00	RES, CHIP	100	5%	1/10W
R595	1-216-025-00	RES, CHIP	100	5%	1/10W
R596	1-216-025-00	RES, CHIP	100	5%	1/10W
R597	1-216-025-00	RES, CHIP	100	5%	1/10W
R598	1-216-025-00	RES, CHIP	100	5%	1/10W
R705	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R729	1-216-295-00	SHORT	0 (MY, SP, IA)		
R729	1-216-045-00	METAL CHIP	680	5%	1/10W (TH, CH)
R730	1-216-077-00	METAL CHIP	15K	5%	1/10W (TH, CH)
R731	1-216-073-00	METAL CHIP	10K	5%	1/10W
R769	1-216-073-00	METAL CHIP	10K	5%	1/10W
R770	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R778	1-216-089-00	RES, CHIP	47K	5%	1/10W
R779	1-216-089-00	RES, CHIP	47K	5%	1/10W
R780	1-216-089-00	RES, CHIP	47K	5%	1/10W
R781	1-216-089-00	RES, CHIP	47K	5%	1/10W
R800	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R901	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R902	1-216-081-00	METAL CHIP	22K	5%	1/10W
R911	1-216-089-00	RES, CHIP	47K	5%	1/10W
R912	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R931	1-216-049-11	RES, CHIP	1K	5%	1/10W
R932	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R933	1-216-041-00	METAL CHIP	470	5%	1/10W
R951	1-216-049-11	RES, CHIP	1K	5%	1/10W
R952	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R953	1-216-025-00	RES, CHIP	100	5%	1/10W
R954	1-216-089-00	RES, CHIP	47K	5%	1/10W
R955	1-216-089-00	RES, CHIP	47K	5%	1/10W
R956	1-216-073-00	METAL CHIP	10K	5%	1/10W
R961	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R962	1-216-079-00	METAL CHIP	18K	5%	1/10W
R963	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
		< VARIABLE RESISTOR >			
RV301	1-241-764-11	RES, ADJ, CARBON 10K			
RV351	1-241-764-11	RES, ADJ, CARBON 10K			
		< VIBRATOR >			
X201	1-579-125-11	VIBRATOR, CERAMIC (8MHz)			
X501	1-579-233-11	VIBRATOR, CERAMIC (5MHz)			
X502	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			

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Ref. No.	Part No.	Description			Remark
*	A-4414-041-A	MIC BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C750	1-163-021-00	CERAMIC CHIP	0.01uF	10%	50V
C751	1-126-957-11	ELECT	0.22uF	20%	50V
C752	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C754	1-163-021-00	CERAMIC CHIP	0.01uF	10%	50V
C755	1-126-957-11	ELECT	0.22uF	20%	50V
C756	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C757	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C758	1-126-964-11	ELECT	10uF	20%	50V
C759	1-126-957-11	ELECT	0.22uF	20%	50V
C760	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C761	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C762	1-126-961-11	ELECT	2.2uF	20%	50V
C764	1-126-964-11	ELECT	10uF	20%	50V
C765	1-126-960-11	ELECT	1uF	20%	50V
C766	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C767	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C768	1-136-495-11	FILM	0.068uF	5%	50V
C769	1-126-959-11	ELECT	0.47uF	20%	50V
C770	1-126-959-11	ELECT	0.47uF	20%	50V
C771	1-104-664-11	ELECT	47uF	20%	16V
C772	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C773	1-104-664-11	ELECT	47uF	20%	16V
C774	1-136-495-11	FILM	0.068uF	5%	50V
C775	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C776	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C777	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C778	1-126-960-11	ELECT	1uF	20%	50V
C779	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C780	1-126-961-11	ELECT	2.2uF	20%	50V
C782	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
		< DIODE >			
D751	8-719-210-33	DIODE EC10DS2			
D752	8-719-210-33	DIODE EC10DS2			
D753	8-719-210-33	DIODE EC10DS2			
		< FILTER >			
FL751	1-233-289-21	FILTER, EMI (SMD)			
		< IC >			
IC750	8-759-636-55	IC M5218AFP			
IC751	8-759-496-41	IC M65850FP-E1			
		< JACK >			
J750	1-785-200-11	JACK (LARGE TYPE) (MIC 2)			
J751	1-785-200-11	JACK (LARGE TYPE) (MIC 1)			
		< COIL >			
L751	1-412-032-11	INDUCTOR CHIP 100uH			
		< RESISTOR >			
R750	1-216-073-00	METAL CHIP	10K	5%	1/10W
R751	1-216-049-11	RES, CHIP	1K	5%	1/10W
R752	1-216-097-00	RES, CHIP	100K	5%	1/10W
R753	1-216-049-11	RES, CHIP	1K	5%	1/10W
R754	1-216-089-00	RES, CHIP	47K	5%	1/10W
R755	1-216-073-00	METAL CHIP	10K	5%	1/10W
R756	1-216-107-00	METAL CHIP	270K	5%	1/10W
R757	1-216-025-00	RES, CHIP	100	5%	1/10W
R758	1-216-081-00	METAL CHIP	22K	5%	1/10W
R759	1-216-081-00	METAL CHIP	22K	5%	1/10W
R760	1-216-081-00	METAL CHIP	22K	5%	1/10W
R761	1-216-099-00	METAL CHIP	120K	5%	1/10W
R762	1-216-081-00	METAL CHIP	22K	5%	1/10W
R763	1-216-081-00	METAL CHIP	22K	5%	1/10W
R764	1-216-081-00	METAL CHIP	22K	5%	1/10W
R765	1-216-089-00	RES, CHIP	47K	5%	1/10W
R766	1-216-077-00	METAL CHIP	15K	5%	1/10W
R767	1-216-077-00	METAL CHIP	15K	5%	1/10W
R768	1-216-049-11	RES, CHIP	1K	5%	1/10W
R769	1-216-073-00	METAL CHIP	10K	5%	1/10W
		< VARIABLE RESISTOR >			
RV750	1-225-587-11	RES, VAR, CARBON 50K (MIC LEVEL)			
RV751	1-225-587-11	RES, VAR, CARBON 50K (ECHO LEVEL)			
**********					
*	1-658-578-11	MOTOR (SLIDE) BOARD			
		**********			
		< CAPACITOR >			
C801	1-162-306-11	CERAMIC	0.01uF	20%	16V
C804	1-162-306-11	CERAMIC	0.01uF	20%	16V
C805	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CN801	1-568-947-11	PIN, CONNECTOR 9P			
		< DIODE >			
D801	8-719-921-48	DIODE MTZJ-T-72-5.6C			
D804	8-719-911-19	DIODE 1SS119			
D805	8-719-911-19	DIODE 1SS119			
		< IC >			
IC801	8-759-274-09	IC BA6286N			
		< RESISTOR >			
R801	1-249-401-11	CARBON	47	5%	1/4W
		< SWITCH >			
S801	1-762-527-11	SWITCH, ROTARY (OPEN/CLOSE DET)			
**********					
*	1-658-577-11	MOTOR (TURN) BOARD			
		**********			
		< CAPACITOR >			
C701	1-162-306-11	CERAMIC	0.01uF	20%	16V
C702	1-126-964-11	ELECT	10uF	20%	50V
C705	1-162-306-11	CERAMIC	0.01uF	20%	16V

MOTOR (TURN) | PANEL

Ref. No.	Part No.	Description			Remark
		< CONNECTOR >			
CN703	1-750-413-11	CONNECTOR, FFC/FPC 8P			
CN704	1-506-469-11	PIN, CONNECTOR 4P			
		< DIODE >			
D701	8-719-983-66	DIODE MTZJ-T-72-3.6B			
		< IC >			
IC701	8-759-633-65	IC M54641L			
		< RESISTOR >			
R706	1-249-411-11	CARBON	330	5%	1/4W
R707	1-249-401-11	CARBON	47	5%	1/4W
**********					
*	A-4414-054-A	PANEL BOARD, COMPLETE (EXCEPT TH)			
*	A-4414-635-A	PANEL BOARD, COMPLETE (TH)			
		**********			
*	4-932-810-31	CUSHION (FL)			
*	4-996-796-11	HOLDER, FL TUBE			
		< CAPACITOR >			
C600	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C601	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C602	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C603	1-124-589-11	ELECT	47uF	20%	16V
C604	1-126-163-11	ELECT	4.7uF	20%	50V
C605	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C606	1-126-160-11	ELECT	1uF	20%	50V
C607	1-126-160-11	ELECT	1uF	20%	50V
C608	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C609	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C610	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C611	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C612	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C613	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C614	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C615	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C616	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C617	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C618	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C619	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C620	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C621	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C625	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C626	1-124-589-11	ELECT	47uF	20%	16V
C631	1-126-157-11	ELECT	10uF	20%	16V
C632	1-126-157-11	ELECT	10uF	20%	16V
C633	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C634	1-126-157-11	ELECT	10uF	20%	16V
C652	1-163-021-00	CERAMIC CHIP	0.01uF	10%	50V
C801	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C802	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C803	1-124-589-11	ELECT	47uF	20%	16V
C804	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C805	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C806	1-126-963-11	ELECT	4.7uF	20%	50V

Ref. No.	Part No.	Description			Remark
C807	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C808	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C809	1-104-664-11	ELECT	47uF	20%	10V
C851	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C852	1-126-935-11	ELECT	470uF	20%	6.3V
C853	1-126-963-11	ELECT	4.7uF	20%	50V
		< CONNECTOR >			
* CN601	1-568-832-11	SOCKET, CONNECTOR 13P			
CN602	1-764-698-11	SOCKET, CONNECTOR (NON ZIF)19P			
* CN603	1-568-943-11	PIN, CONNECTOR 5P			
CN604	1-506-486-11	PIN, CONNECTOR 7P			
		< DIODE >			
D601	8-719-058-24	DIODE RB501V-40TE-17			
D602	8-719-210-33	DIODE EC10DS2			
D603	8-719-210-33	DIODE EC10DS2			
D620	8-719-063-93	LED SLR325VC-N-T32 (EFFECT)			
D621	8-719-056-13	LED SML79423C-TP15 (CD, ▶II)			
D622	8-719-058-03	LED SEL5423E-TP15 (TAPE B, ◀)			
D623	8-719-058-03	LED SEL5423E-TP15 (TAPE B, ▶)			
D624	8-719-058-03	LED SEL5423E-TP15 (TAPE A, ◀)			
D625	8-719-058-03	LED SEL5423E-TP15 (TAPE A, ▶)			
D626	8-719-057-97	LED SEL5923A-TP15 (PBC)			
D627	8-719-057-97	LED SEL5923A-TP15 (PBC OFF)			
D628	8-719-057-97	LED SEL5923A-TP15 (VIDEO CD)			
D629	8-719-057-97	LED SEL5923A-TP15 (DSP)			
D630	8-719-057-97	LED SEL5923A-TP15 (PRO LOGIC)			
D651	8-719-063-93	LED SLR325VC-N-T32 (● REC)			
D652	8-719-057-97	LED SEL5923A-TP15 (II PAUSE)			
D804	8-719-988-62	DIODE 1SS355			
D805	8-719-988-62	DIODE 1SS355			
D806	8-719-988-62	DIODE 1SS355			
D807	8-719-988-62	DIODE 1SS355			
		< FILTER >			
FL601	1-233-289-21	FILTER, EMI (SMD)			
FL602	1-233-289-21	FILTER, EMI (SMD)			
FL801	1-233-289-21	FILTER, EMI (SMD)			
FL802	1-233-289-21	FILTER, EMI (SMD)			
FL851	1-233-289-21	FILTER, EMI (SMD)			
		< IC >			
IC601	8-759-546-36	IC TMP87CM74AF-6731			
IC602	8-749-011-22	IC GP1U27X			
IC603	8-759-495-25	IC BA3833F-E2			
IC801	8-759-496-11	IC TMP87CH48DF-4825			
IC851	8-759-498-98	IC MSM6653A-517GS-K			
		< SHORT >			
JR903	1-216-296-00	SHORT	0		
JR904	1-216-296-00	SHORT	0		
JR905	1-216-296-00	SHORT	0		
JR906	1-216-295-00	SHORT	0		
JR907	1-216-296-00	SHORT	0		
JR908	1-216-296-00	SHORT	0		
JR909	1-216-296-00	SHORT	0		
JR910	1-216-296-00	SHORT	0		
JR911	1-216-296-00	SHORT	0		

Ref. No.	Part No.	Description			Remark
JR912	1-216-295-00	SHORT	0		
JR913	1-216-296-00	SHORT	0		
JR914	1-216-296-00	SHORT	0		
JR915	1-216-296-00	SHORT	0		
JR916	1-216-296-00	SHORT	0		
JR917	1-216-296-00	SHORT	0		
JR918	1-216-296-00	SHORT	0		
JR919	1-216-295-00	SHORT	0		
JR920	1-216-295-00	SHORT	0		
JR921	1-216-295-00	SHORT	0		
JR922	1-216-295-00	SHORT	0		
JR923	1-216-296-00	SHORT	0		
JR925	1-216-295-00	SHORT	0		
JR926	1-216-295-00	SHORT	0		
JR927	1-216-295-00	SHORT	0		
JR928	1-216-296-00	SHORT	0		
		< COIL >			
L601	1-412-031-11	INDUCTOR CHIP	47uH		
L602	1-412-031-11	INDUCTOR CHIP	47uH		
L851	1-412-031-11	INDUCTOR CHIP	47uH		
		< FLUORECENT INDICATOR TUBE >			
ND601	1-517-731-21	INDICATOR TUBE, FLUORESCENT			
		< TRANSISTOR >			
Q601	8-729-118-00	TRANSISTOR	2SB1116-L		
Q602	8-729-118-00	TRANSISTOR	2SB1116-L		
Q603	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q607	8-729-027-60	TRANSISTOR	DTC144TKA-T146		
Q608	8-729-027-60	TRANSISTOR	DTC144TKA-T146		
Q609	8-729-027-60	TRANSISTOR	DTC144TKA-T146		
Q610	8-729-027-60	TRANSISTOR	DTC144TKA-T146		
Q611	8-729-027-60	TRANSISTOR	DTC144TKA-T146		
Q618	8-729-027-60	TRANSISTOR	DTC144TKA-T146		
Q701	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q702	8-729-120-28	TRANSISTOR	2SC1623-L5L6		
Q851	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q958	8-729-900-53	TRANSISTOR	DTC114EK		
Q959	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
Q960	8-729-027-23	TRANSISTOR	DTA114EKA-T146		
		< RESISTOR >			
R601	1-216-121-00	RES, CHIP	1M	5%	1/10W
R602	1-216-025-00	RES, CHIP	100	5%	1/10W
R604	1-216-073-00	METAL CHIP	10K	5%	1/10W
R605	1-216-073-00	METAL CHIP	10K	5%	1/10W
R606	1-216-073-00	METAL CHIP	10K	5%	1/10W
R607	1-216-073-00	METAL CHIP	10K	5%	1/10W
R608	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R609	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R610	1-216-025-00	RES, CHIP	100	5%	1/10W
R611	1-216-025-00	RES, CHIP	100	5%	1/10W
R612	1-216-017-00	RES, CHIP	47	5%	1/10W
R613	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R614	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R616	1-216-097-00	RES, CHIP	100K	5%	1/10W
R618	1-216-089-00	RES, CHIP	47K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R619	1-216-089-00	RES, CHIP	47K	5%	1/10W
R621	1-216-075-00	METAL CHIP	12K	5%	1/10W
R622	1-216-039-00	METAL CHIP	390	5%	1/10W
R623	1-216-041-00	METAL CHIP	470	5%	1/10W
R624	1-216-045-00	METAL CHIP	680	5%	1/10W
R625	1-216-047-00	RES, CHIP	820	5%	1/10W
R626	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R627	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R628	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R629	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R630	1-216-063-00	RES, CHIP	3.9K	5%	1/10W
R631	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R632	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R633	1-216-075-00	METAL CHIP	12K	5%	1/10W
R636	1-216-075-00	METAL CHIP	12K	5%	1/10W
R649	1-216-075-00	METAL CHIP	12K	5%	1/10W
R650	1-216-039-00	METAL CHIP	390	5%	1/10W
R651	1-216-041-00	METAL CHIP	470	5%	1/10W
R652	1-216-045-00	METAL CHIP	680	5%	1/10W
R653	1-216-047-00	RES, CHIP	820	5%	1/10W
R654	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R655	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R661	1-216-089-00	RES, CHIP	47K	5%	1/10W
R662	1-216-089-00	RES, CHIP	47K	5%	1/10W
R663	1-216-049-11	RES, CHIP	1K	5%	1/10W
R664	1-216-049-11	RES, CHIP	1K	5%	1/10W
R665	1-216-089-00	RES, CHIP	47K	5%	1/10W
R673	1-216-037-00	METAL CHIP	330	5%	1/10W
R674	1-216-027-00	METAL CHIP	120	5%	1/10W
R675	1-216-027-00	METAL CHIP	120	5%	1/10W
R676	1-216-027-00	METAL CHIP	120	5%	1/10W
R677	1-216-027-00	METAL CHIP	120	5%	1/10W
R678	1-216-027-00	METAL CHIP	120	5%	1/10W
R679	1-216-027-00	METAL CHIP	120	5%	1/10W
R680	1-216-029-00	METAL CHIP	150	5%	1/10W
R681	1-216-029-00	METAL CHIP	150	5%	1/10W
R682	1-216-029-00	METAL CHIP	150	5%	1/10W
R683	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R684	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R701	1-216-073-00	METAL CHIP	10K	5%	1/10W
R702	1-216-073-00	METAL CHIP	10K	5%	1/10W
R703	1-216-097-00	RES, CHIP	100K	5%	1/10W
R704	1-216-097-00	RES, CHIP	100K	5%	1/10W
R720	1-216-029-00	METAL CHIP	150	5%	1/10W
R721	1-216-029-00	METAL CHIP	150	5%	1/10W
R723	1-216-075-00	METAL CHIP	12K	5%	1/10W
R724	1-216-039-00	METAL CHIP	390	5%	1/10W
R725	1-216-041-00	METAL CHIP	470	5%	1/10W
R726	1-216-045-00	METAL CHIP	680	5%	1/10W
R727	1-216-047-00	RES, CHIP	820	5%	1/10W
R728	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R729	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R730	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R731	1-216-059-00	METAL CHIP	2.7K	5%	1/10W
R742	1-216-027-00	METAL CHIP	120	5%	1/10W
R743	1-216-027-00	METAL CHIP	120	5%	1/10W
R801	1-216-121-00	RES, CHIP	1M	5%	1/10W

PANEL | POWER AMP

Ref. No.	Part No.	Description			Remark
R802	1-216-025-00	RES, CHIP	100	5%	1/10W
R803	1-216-025-00	RES, CHIP	100	5%	1/10W
R804	1-216-025-00	RES, CHIP	100	5%	1/10W
R805	1-216-075-00	METAL CHIP	12K	5%	1/10W
R806	1-216-075-00	METAL CHIP	12K	5%	1/10W
R807	1-216-085-00	METAL CHIP	33K	5%	1/10W
R808	1-216-113-00	METAL CHIP	470K	5%	1/10W
R809	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R810	1-216-089-00	RES, CHIP	47K	5%	1/10W
R851	1-216-097-00	RES, CHIP	100K	5%	1/10W
R852	1-216-025-00	RES, CHIP	100	5%	1/10W
R954	1-216-097-00	RES, CHIP	100K	5%	1/10W
R955	1-216-097-00	RES, CHIP	100K	5%	1/10W
		< SWITCH >			
S604	1-762-875-21	SWITCH, KEYBOARD (PRO LOGIC)			
S605	1-762-875-21	SWITCH, KEYBOARD (DSP)			
S606	1-762-875-21	SWITCH, KEYBOARD (KARAOKE PON/MPX)			
S607	1-762-875-21	SWITCH, KEYBOARD (■)			
S608	1-762-875-21	SWITCH, KEYBOARD (P FILE MEMORY)			
S609	1-762-875-21	SWITCH, KEYBOARD (GEQ CONTROL)			
S610	1-762-875-21	SWITCH, KEYBOARD (FILE SELECT)			
S611	1-762-875-21	SWITCH, KEYBOARD (EFFECT)			
S612	1-762-875-21	SWITCH, KEYBOARD (DEMO)			
S613	1-762-875-21	SWITCH, KEYBOARD (TIMER SELECT)			
S614	1-762-875-21	SWITCH, KEYBOARD (FUNCTION)			
S615	1-762-875-21	SWITCH, KEYBOARD (CLOCK/TIMER SET)			
S616	1-762-875-21	SWITCH, KEYBOARD (DISPLAY)			
S631	1-762-875-21	SWITCH, KEYBOARD (TUNER, BAND)			
S632	1-762-875-21	SWITCH, KEYBOARD (CD, ►II)			
S633	1-762-875-21	SWITCH, KEYBOARD (TAPE B, ◄)			
S634	1-762-875-21	SWITCH, KEYBOARD (TAPE B, ►)			
S635	1-762-875-21	SWITCH, KEYBOARD (TAPE A, ◄)			
S636	1-762-875-21	SWITCH, KEYBOARD (TAPE A, ►)			
S652	1-762-875-21	SWITCH, KEYBOARD (PLAY MODE, DOLBY NR, TUNER MEMORY)			
S653	1-762-875-21	SWITCH, KEYBOARD (EDIT, DIRECTION)			
S654	1-762-875-21	SWITCH, KEYBOARD (REPEAT, STEREO/MONO)			
S656	1-762-875-21	SWITCH, KEYBOARD (● REC)			
S657	1-762-875-21	SWITCH, KEYBOARD (II PAUSE)			
S658	1-762-875-21	SWITCH, KEYBOARD (HI-DUB)			
S659	1-762-875-21	SWITCH, KEYBOARD (CD SYNC)			
		< VIBRATOR >			
X501	1-579-125-11	VIBRATOR, CERAMIC (8MHz)			
X601	1-579-125-11	VIBRATOR, CERAMIC (8MHz)			
X851	1-767-353-11	VIBRATOR, CERAMIC (4.09MHz)			
**********					
*	A-4407-298-A	POWER AMP BOARD, COMPLETE (MY, SP, IA)			
*	A-4407-409-A	POWER AMP BOARD, COMPLETE (TH)			
*	A-4414-058-A	POWER AMP BOARD, COMPLETE (CH)			
		**********			
		< CAPACITOR >			
C101	1-130-781-00	FILM	0.22uF	10%	100V
C102	1-130-781-00	FILM	0.22uF	10%	100V
C103	1-164-159-21	CERAMIC	0.1uF		50V

Ref. No.	Part No.	Description			Remark
C104	1-164-159-21	CERAMIC	0.1uF		50V
C105	1-126-943-11	ELECT	2200uF	20%	25V
C106	1-162-294-31	CERAMIC	0.001uF	10%	50V
C107	1-162-294-31	CERAMIC	0.001uF	10%	50V
C111	1-126-968-11	ELECT	100uF	20%	50V
C112	1-126-968-11	ELECT	100uF	20%	50V
C113	1-162-294-31	CERAMIC	0.001uF	10%	50V
C114	1-126-967-11	ELECT	47uF	20%	50V
C151	1-128-493-11	ELECT	4700uF	20%	71V
C152	1-128-493-11	ELECT	4700uF	20%	71V
C201	1-128-582-11	ELECT	10uF	20%	100V
C202	1-162-292-31	CERAMIC	680PF	10%	50V
C203	1-162-286-21	CERAMIC	220PF	10%	50V
C204	1-126-967-11	ELECT	47uF	20%	50V
C205	1-126-967-11	ELECT	47uF	20%	50V
C206	1-128-560-11	ELECT	22uF	20%	100V
C207	1-130-493-00	MYLAR	0.068uF	5%	50V
C208	1-130-493-00	MYLAR	0.068uF	5%	50V
C221	1-162-284-31	CERAMIC	150PF	10%	50V
C222	1-162-284-31	CERAMIC	150PF	10%	50V
C223	1-164-159-21	CERAMIC	0.1uF		50V
C224	1-128-560-11	ELECT	22uF	20%	100V
C225	1-161-494-00	CERAMIC	0.022uF		25V (CH)
C228	1-162-284-31	CERAMIC	150PF	10%	50V
C251	1-128-582-11	ELECT	10uF	20%	100V
C252	1-162-292-31	CERAMIC	680PF	10%	50V
C253	1-162-286-21	CERAMIC	220PF	10%	50V
C254	1-126-967-11	ELECT	47uF	20%	50V
C255	1-126-967-11	ELECT	47uF	20%	50V
C256	1-128-560-11	ELECT	22uF	20%	100V
C257	1-130-493-00	MYLAR	0.068uF	5%	50V
C258	1-130-493-00	MYLAR	0.068uF	5%	50V
C301	1-126-934-11	ELECT	220uF	20%	10V
C302	1-126-934-11	ELECT	220uF	20%	10V
C303	1-126-961-11	ELECT	2.2uF	20%	50V
C311	1-126-959-11	ELECT	0.47uF	20%	50V
C312	1-128-573-11	ELECT	470uF	20%	71V
C313	1-128-573-11	ELECT	470uF	20%	71V
C331	1-126-924-11	ELECT	330uF	20%	10V
C401	1-126-963-11	ELECT	4.7uF	20%	50V
C402	1-164-159-21	CERAMIC	0.1uF		50V (CH)
C403	1-164-159-21	CERAMIC	0.1uF		50V (CH)
C404	1-164-159-21	CERAMIC	0.1uF		50V (CH)
C405	1-164-159-21	CERAMIC	0.1uF		50V (CH)
C406	1-164-159-21	CERAMIC	0.1uF		50V (CH)
C407	1-164-159-21	CERAMIC	0.1uF		50V (CH)
C410	1-164-159-21	CERAMIC	0.1uF		50V (CH)
C411	1-164-159-21	CERAMIC	0.1uF		50V (CH)
C412	1-161-494-00	CERAMIC	0.022uF		25V
C413	1-161-494-00	CERAMIC	0.022uF		25V

Ref. No.	Part No.	Description		Remark
C414	1-161-494-00	CERAMIC	0.022uF	25V
C415	1-161-494-00	CERAMIC	0.022uF	25V
		< CONNECTOR >		
CN201	1-778-981-11	CONNECTOR, BOARD TO BOARD 13P		
CN202	1-770-724-11	CONNECTOR, BOARD TO BOARD 9P		
* CN203	1-573-128-11	PIN, CONNECTOR 5P		
		< DIODE >		
D101	8-719-510-68	DIODE	D5SBA20F01	
D102	8-719-028-23	DIODE	D3SBA20-4101	
D103	8-719-200-82	DIODE	11ES2	
D104	8-719-200-82	DIODE	11ES2	
D105	8-719-911-19	DIODE	1SS119 (CH)	
D111	8-719-200-82	DIODE	11ES2	
D112	8-719-200-82	DIODE	11ES2	
D113	8-719-936-50	DIODE	HZS33-2LTD	
D114	8-719-109-89	DIODE	RD5.6ESB2	
D201	8-719-991-33	DIODE	1SS133T-77	
D251	8-719-991-33	DIODE	1SS133T-77	
D301	8-719-991-33	DIODE	1SS133T-77	
D311	8-719-991-33	DIODE	1SS133T-77	
D321	8-719-991-33	DIODE	1SS133T-77	
D331	8-719-991-33	DIODE	1SS133T-77	
D332	8-719-991-33	DIODE	1SS133T-77	
D401	8-719-991-33	DIODE	1SS133T-77	
D403	8-719-991-33	DIODE	1SS133T-77	
D405	8-719-991-33	DIODE	1SS133T-77	
D406	8-719-991-33	DIODE	1SS133T-77	
D407	8-719-991-33	DIODE	1SS133T-77	
D408	8-719-991-33	DIODE	1SS133T-77	
		< EARTH TERMINAL >		
* EP101	1-537-738-21	TERMINAL, EARTH		
* EP201	1-537-738-21	TERMINAL, EARTH		
		< IC >		
IC201	8-749-921-68	IC	STK-4231MK2	
		< COIL >		
L401	1-420-872-00	COIL, AIR-CORE (CH)		
L402	1-420-872-00	COIL, AIR-CORE (CH)		
L403	1-420-872-00	COIL, AIR-CORE (CH)		
L405	1-420-872-00	COIL, AIR-CORE (CH)		
		< TRANSISTOR >		
Q101	8-729-119-78	TRANSISTOR	2SC403SP-51 (CH)	
Q111	8-729-118-01	TRANSISTOR	2SB1116	
Q201	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA	
Q251	8-729-140-84	TRANSISTOR	2SC1841-PAFAEA	
Q301	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q302	8-729-119-78	TRANSISTOR	2SC403SP-51	
Q303	8-729-900-36	TRANSISTOR	DTC124ES	
Q304	8-729-119-76	TRANSISTOR	2SA1175-HFE	
Q305	8-729-900-36	TRANSISTOR	DTC124ES	
Q306	8-729-119-78	TRANSISTOR	2SC403SP-51	
Q307	8-729-119-78	TRANSISTOR	2SC403SP-51	

Ref. No.	Part No.	Description		Remark
Q321	8-729-119-78	TRANSISTOR	2SC403SP-51	
Q322	8-729-900-36	TRANSISTOR	DTC124ES	
Q401	8-729-040-20	TRANSISTOR	RT1P137L-TP	
Q402	8-729-900-80	TRANSISTOR	DTC114ES	
Q404	8-729-040-20	TRANSISTOR	RT1P137L-TP	
Q405	8-729-904-39	TRANSISTOR	DTC114TS	
Q406	8-729-900-80	TRANSISTOR	DTC114ES	
		< RESISTOR >		
⚠R101	1-216-451-11	METAL OXIDE	120 5%	2W F (CH)
R102	1-249-429-11	CARBON	10K 5%	1/4W (CH)
R103	1-249-441-11	CARBON	100K 5%	1/4W
⚠R111	1-217-637-00	FUSIBLE	1 5%	1/4W F
R112	1-249-417-11	CARBON	1K 5%	1/4W
R113	1-249-417-11	CARBON	1K 5%	1/4W
R114	1-247-815-91	CARBON	220 5%	1/4W
R115	1-247-815-91	CARBON	220 5%	1/4W
R116	1-249-425-11	CARBON	4.7K 5%	1/4W
R201	1-249-417-11	CARBON	1K 5%	1/4W
R202	1-249-437-11	CARBON	47K 5%	1/4W
R203	1-249-412-11	CARBON	390 5%	1/4W
R204	1-249-437-11	CARBON	47K 5%	1/4W
R205	1-260-107-11	CARBON	4.7K 5%	1/2W
R206	1-260-107-11	CARBON	4.7K 5%	1/2W
⚠R207	1-212-881-11	FUSIBLE	100 5%	1/4W F
⚠R208	1-220-893-11	METAL	0.22 10%	5W F
R209	1-249-417-11	CARBON	1K 5%	1/4W
R210	1-249-431-11	CARBON	15K 5%	1/4W
R211	1-249-441-11	CARBON	100K 5%	1/4W
R212	1-260-076-11	CARBON	10 5%	1/2W
⚠R221	1-217-637-00	FUSIBLE	1 5%	1/4W F
R222	1-260-103-11	CARBON	2.2K 5%	1/2W
R223	1-260-103-11	CARBON	2.2K 5%	1/2W
R224	1-249-425-11	CARBON	4.7K 5%	1/4W
R251	1-249-417-11	CARBON	1K 5%	1/4W
R252	1-249-437-11	CARBON	47K 5%	1/4W
R253	1-249-412-11	CARBON	390 5%	1/4W
R254	1-249-437-11	CARBON	47K 5%	1/4W
R255	1-260-107-11	CARBON	4.7K 5%	1/2W
R256	1-260-107-11	CARBON	4.7K 5%	1/2W
⚠R257	1-212-881-11	FUSIBLE	100 5%	1/4W F
⚠R258	1-220-893-11	METAL	0.22 10%	5W F
R259	1-249-417-11	CARBON	1K 5%	1/4W
R260	1-249-431-11	CARBON	15K 5%	1/4W
R261	1-249-441-11	CARBON	100K 5%	1/4W
R262	1-260-076-11	CARBON	10 5%	1/2W
R271	1-260-093-11	CARBON	330 5%	1/2W
R272	1-260-093-11	CARBON	330 5%	1/2W
R273	1-260-093-11	CARBON	330 5%	1/2W
R274	1-260-093-11	CARBON	330 5%	1/2W
R301	1-249-429-11	CARBON	10K 5%	1/4W
R302	1-249-425-11	CARBON	4.7K 5%	1/4W
R303	1-249-429-11	CARBON	10K 5%	1/4W
R304	1-249-429-11	CARBON	10K 5%	1/4W
R305	1-249-425-11	CARBON	4.7K 5%	1/4W
R306	1-249-441-11	CARBON	100K 5%	1/4W

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description			Remark
R308	1-247-903-00	CARBON	1M	5%	1/4W
R310	1-247-903-00	CARBON	1M	5%	1/4W
R311	1-249-441-11	CARBON	100K	5%	1/4W
R312	1-249-419-11	CARBON	1.5K	5%	1/4W
R313	1-247-863-91	CARBON	22K	5%	1/4W
R314	1-247-863-91	CARBON	22K	5%	1/4W
R315	1-249-439-11	CARBON	68K	5%	1/4W
R316	1-249-437-11	CARBON	47K	5%	1/4W
R321	1-249-440-11	CARBON	82K	5%	1/4W
R322	1-249-441-11	CARBON	100K	5%	1/4W
R323	1-249-441-11	CARBON	100K	5%	1/4W
R324	1-249-441-11	CARBON	100K	5%	1/4W
R331	1-247-890-11	CARBON	300K	5%	1/4W
R332	1-249-429-11	CARBON	10K	5%	1/4W
R333	1-249-431-11	CARBON	15K	5%	1/4W
⚠R401	1-215-893-11	METAL OXIDE	1.5K	5%	2W F
⚠R403	1-215-893-11	METAL OXIDE	1.5K	5%	2W F
R406	1-249-437-11	CARBON	47K	5%	1/4W
R407	1-249-437-11	CARBON	47K	5%	1/4W
R408	1-249-440-11	CARBON	82K	5%	1/4W
R409	1-249-437-11	CARBON	47K	5%	1/4W
R410	1-249-389-11	CARBON	4.7	5%	1/4W (CH)
R411	1-249-389-11	CARBON	4.7	5%	1/4W (CH)
R412	1-249-389-11	CARBON	4.7	5%	1/4W (CH)
R413	1-249-389-11	CARBON	4.7	5%	1/4W (CH)
R414	1-260-076-11	CARBON	10	5%	1/2W (CH)
R415	1-260-076-11	CARBON	10	5%	1/2W (CH)
R416	1-249-389-11	CARBON	4.7	5%	1/4W (CH)
R417	1-249-389-11	CARBON	4.7	5%	1/4W (CH)
R420	1-249-389-11	CARBON	4.7	5%	1/4W (CH)
R421	1-249-389-11	CARBON	4.7	5%	1/4W (CH)
R422	1-260-076-11	CARBON	10	5%	1/2W (CH)
R424	1-260-076-11	CARBON	10	5%	1/2W (CH)
R425	1-260-095-11	CARBON	470	5%	1/2W
R426	1-260-095-11	CARBON	470	5%	1/2W
R427	1-260-095-11	CARBON	470	5%	1/2W
R428	1-260-095-11	CARBON	470	5%	1/2W
R429	1-249-437-11	CARBON	47K	5%	1/4W
R430	1-249-437-11	CARBON	47K	5%	1/4W
		< RELAY >			
RY101	1-755-195-11	RELAY (CH)			
RY401	1-755-168-11	RELAY			
RY403	1-515-920-11	RELAY (24V)			
		< THERMISTOR >			
THP321	1-807-796-11	THERMISTOR			

Ref. No.	Part No.	Description			Remark
		< TERMINAL >			
TM401	1-537-842-11	TERMINAL BOARD (FRONT SPEAKER)			
TM402	1-537-510-11	TERMINAL BOARD (SPEAKER) (6P) (SURROUND SPEAKER)			
**********					
*	1-658-576-11	SENSOR BOARD			
		**********			
		< PHOTO INTERRUPTER/REFLECTOR >			
IC702	8-749-924-18	PHOTO INTERRUPTER RPI-1391			
IC703	8-749-924-30	PHOTO REFLECTOR GP2S28			
		< RESISTOR >			
R701	1-249-416-11	CARBON	820	5%	1/4W
R702	1-249-407-11	CARBON	150	5%	1/4W
**********					
*	A-4407-766-A	SURROUND BOARD, COMPLETE (TH)			
*	A-4414-862-A	SURROUND BOARD, COMPLETE (MY, SP, IA)			
*	A-4417-262-A	SURROUND BOARD, COMPLETE (CH)			
		**********			
		< CAPACITOR >			
C601	1-126-965-11	ELECT	22uF	20%	50V
C602	1-162-292-31	CERAMIC	680PF	10%	50V
C603	1-162-286-21	CERAMIC	220PF	10%	50V
C604	1-126-963-11	ELECT	4.7uF	20%	50V
C605	1-126-967-11	ELECT	47uF	20%	50V
C606	1-126-965-11	ELECT	22uF	20%	50V
C607	1-130-493-00	MYLAR	0.068uF	5%	50V
C608	1-130-493-00	MYLAR	0.068uF	5%	50V
C621	1-162-294-31	CERAMIC	0.001uF	10%	50V
C622	1-126-971-11	ELECT	470uF	20%	50V
C623	1-162-284-31	CERAMIC	150PF	10%	50V
C627	1-162-284-31	CERAMIC	150PF	10%	50V (CH)
C628	1-161-494-00	CERAMIC	0.022uF		25V (CH)
C651	1-126-965-11	ELECT	22uF	20%	50V
C652	1-162-292-31	CERAMIC	680PF	10%	50V
C653	1-162-286-21	CERAMIC	220PF	10%	50V
C654	1-126-963-11	ELECT	4.7uF	20%	50V
C655	1-126-967-11	ELECT	47uF	20%	50V
C657	1-130-493-00	MYLAR	0.068uF	5%	50V
C658	1-130-493-00	MYLAR	0.068uF	5%	50V
		< CONNECTOR >			
CN601	1-691-765-11	PLUG (MICRO CONNECTOR) 3P			
CN602	1-691-770-11	PLUG (MICRO CONNECTOR) 8P			
		< DIODE >			
D602	8-719-934-17	DIODE HZS27-1L			
D604	8-719-991-33	DIODE 1SS133T-77			

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description				Remark
		< EARTH TERMINAL >				
* EP601	1-537-738-21	TERMINAL, EARTH (CH)				
* EP602	1-537-738-21	TERMINAL, EARTH				
		< IC >				
IC601	8-749-900-96	IC STK-4142MK2				
		< TRANSISTOR >				
Q601	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q604	8-729-119-78	TRANSISTOR 2SC403SP-51				
Q651	8-729-119-76	TRANSISTOR 2SA1175-HFE				
		< RESISTOR >				
R601	1-249-417-11	CARBON	1K	5%	1/4W	
R602	1-249-437-11	CARBON	47K	5%	1/4W	
R603	1-249-413-11	CARBON	470	5%	1/4W	
R604	1-249-437-11	CARBON	47K	5%	1/4W	
R605	1-260-103-11	CARBON	2.2K	5%	1/2W	
R606	1-260-103-11	CARBON	2.2K	5%	1/2W	
⚠R607	1-212-881-11	FUSIBLE	100	5%	1/4W	F
⚠R608	1-220-755-11	METAL	0.22	10%	2W	F
R609	1-249-441-11	CARBON	100K	5%	1/4W	
R610	1-249-441-11	CARBON	100K	5%	1/4W	
R611	1-249-441-11	CARBON	100K	5%	1/4W	
R612	1-260-076-11	CARBON	10	5%	1/2W	
R621	1-260-109-11	CARBON	6.8K	5%	1/2W	
⚠R622	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R629	1-249-429-11	CARBON	10K	5%	1/4W	
R651	1-249-417-11	CARBON	1K	5%	1/4W	
R652	1-249-437-11	CARBON	47K	5%	1/4W	
R653	1-249-413-11	CARBON	470	5%	1/4W	
R654	1-249-437-11	CARBON	47K	5%	1/4W	
R655	1-260-103-11	CARBON	2.2K	5%	1/2W	
R656	1-260-103-11	CARBON	2.2K	5%	1/2W	
⚠R658	1-220-755-11	METAL	0.22	10%	2W	F
R659	1-249-441-11	CARBON	100K	5%	1/4W	
R660	1-249-441-11	CARBON	100K	5%	1/4W	
R661	1-249-441-11	CARBON	100K	5%	1/4W	
R662	1-260-076-11	CARBON	10	5%	1/2W	
**********						
*	1-668-274-11	TRANSFORMER BOARD				
		**********				
		< CONNECTOR >				
* CN501	1-564-527-11	PLUG, CONNECTOR 12P				
CN502	1-774-108-11	PIN, CONNECTOR (PC BOARD)				
		< FUSE >				
⚠F501	1-532-505-31	FUSE (T5AL/250V) (MY, SP, IA)				
⚠F505	1-532-506-31	FUSE (T6.3AL/250V)				
⚠F506	1-532-506-31	FUSE (T6.3AL/250V)				
		< FUSE HOLDER >				
FH501	1-533-233-21	HOLDER, FUSE (MY, SP, IA)				
FH502	1-533-233-21	HOLDER, FUSE (MY, SP, IA)				
FH507	1-533-233-21	HOLDER, FUSE				
FH508	1-533-233-21	HOLDER, FUSE				
FH509	1-533-233-21	HOLDER, FUSE				
FH510	1-533-233-21	HOLDER, FUSE				
		< RESISTOR >				
⚠R501	1-219-120-11	FUSIBLE	0.15	5%	1/4W	F
⚠R502	1-219-119-81	FUSIBLE	0.1	5%	1/4W	F
⚠R503	1-219-119-81	FUSIBLE	0.1	5%	1/4W	F
⚠R504	1-219-120-11	FUSIBLE	0.15	5%	1/4W	F
		< SWITCH >				
⚠S501	1-771-291-11	SWITCH, POWER (VOLTAGE SELECTOR)				(MY, SP, IA)
		< TRANSFORMER >				
⚠T501	1-431-828-11	TRANSFORMER, POWER				
**********						
*	A-4414-186-A	VIDEO BOARD, COMPLETE (EXCEPT CH)				
*	A-4724-279-A	VIDEO BOARD, COMPLETE (CH)				
		**********				
		< CAPACITOR/SHORT >				
C101	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C102	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V	
C103	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C104	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C201	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C202	1-163-143-00	CERAMIC CHIP	0.0012uF	5%	50V	
C203	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C301	1-163-127-00	CERAMIC CHIP	270PF	5%	50V	
C302	1-163-127-00	CERAMIC CHIP	270PF	5%	50V	
C303	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C304	1-163-235-11	CERAMIC CHIP	22PF	5%	50V	
C305	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C306	1-163-263-11	CERAMIC CHIP	330PF	5%	50V	
C310	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	
C311	1-216-295-00	SHORT	0			
C313	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C314	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C318	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C319	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C401	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C402	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C403	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C404	1-126-206-11	ELECT CHIP	100uF	20%	6.3V	
C405	1-110-530-11	ELECT CHIP	1000uF	20%	6.3V	
C406	1-110-530-11	ELECT CHIP	1000uF	20%	6.3V	
C407	1-165-319-11	CERAMIC CHIP	0.1uF		50V	(FORMER TYPE) (*NOTE)
C408	1-165-319-11	CERAMIC CHIP	0.1uF		50V	(FORMER TYPE) (*NOTE)
C409	1-124-778-00	ELECT CHIP	22uF	20%	6.3V	
C410	1-165-319-11	CERAMIC CHIP	0.1uF		50V	
C411	1-165-319-11	CERAMIC CHIP	0.1uF		50V	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

*NOTE
When replacing IC502, refer to "IC502 of VIDEO board" in "Servicing Notes" (Page 4).

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

VIDEO

Ref. No.	Part No.	Description			Remark
C412	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C413	1-124-778-00	ELECT CHIP	22uF	20%	6.3V
C452	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C501	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C502	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C503	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C504	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C505	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C506	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C507	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C509	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C510	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C531	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C532	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C535	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C536	1-126-193-11	ELECT CHIP	1uF	20%	50V
C537	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C539	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C540	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C541	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C542	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C543	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C544	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C545	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C546	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C547	1-126-193-11	ELECT CHIP	1uF	20%	50V
C548	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C549	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C550	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C551	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C552	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C553	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C555	1-124-779-00	ELECT CHIP	10uF	20%	16V
C556	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C559	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C560	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C561	1-163-099-00	CERAMIC CHIP	18PF	5%	50V
C562	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C563	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C564	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C565	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C566	1-165-319-11	CERAMIC CHIP	0.1uF		50V
C568	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C569	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C570	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C571	1-128-065-11	ELECT CHIP	68uF	20%	10V
C573	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C574	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C576	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C577	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
		< CONNECTOR >			
CN501	1-770-706-11	CONNECTOR, FFC/FPC 23P			
CN503	1-779-416-11	CONNECTOR,FFC(LIF(NON-ZIF))13P			
		< TRIMMER >			
CT503	1-141-539-11	CAP, ADJ 10PF			

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D301	8-719-054-23	DIODE RB706D-40-T146	
D501	8-719-422-12	DIODE MA8039	
D502	8-719-018-51	DIODE CL-170R-CD	
		< IC >	
IC101	8-759-701-39	IC NJM3404AM	
IC401	8-759-262-00	IC MC14576CF	
IC402	8-759-535-49	IC M38513M4-050FP	(FORMER TYPE) (*NOTE)
IC501	8-759-269-92	IC SN74HCU04ANS-E20	
IC502	8-759-535-47	IC M30620MC-302FP	(FORMER TYPE) (*NOTE)
IC502	8-759-549-26	IC M30620-305FP (NEW TYPE) (*NOTE)	
IC504	8-759-269-92	IC SN74HCU04ANS-E20	
IC505	8-759-535-48	IC CL680T-D1	
IC506	8-759-535-61	IC LC372100PM-H95	
IC507	8-759-342-01	IC MB814260-70PJER	
IC509	8-759-535-62	IC PCM1727E-2/T2	
		< JACK >	
J301	1-537-943-11	TERMINAL, S (S VIDEO OUT)	
J302	1-774-227-11	JACK, PIN 1P (VIDEO OUT)	
		< SHORT >	
JW101	1-216-295-00	SHORT 0	
JW201	1-216-295-00	SHORT 0	
JW401	1-216-295-00	SHORT 0	
JW402	1-216-295-00	SHORT 0	
JW403	1-216-295-00	SHORT 0	
JW404	1-216-295-00	SHORT 0	
JW405	1-216-295-00	SHORT 0	
JW413	1-216-295-00	SHORT 0	
JW421	1-216-295-00	SHORT 0 (NEW TYPE) (*NOTE)	
JW422	1-216-295-00	SHORT 0 (NEW TYPE) (*NOTE)	
JW502	1-216-295-00	SHORT 0	
JW503	1-216-295-00	SHORT 0	
JW504	1-216-295-00	SHORT 0	
JW505	1-216-295-00	SHORT 0	
		< COIL/SHORT >	
L301	1-410-372-21	INDUCTOR CHIP 1.8uH	
L302	1-410-372-21	INDUCTOR CHIP 1.8uH	
L501	1-216-296-00	SHORT 0	
L502	1-216-296-00	SHORT 0	
L503	1-216-296-00	SHORT 0 (EXCEPT CH)	
L503	1-410-370-41	INDUCTOR CHIP 1.2uH (CH)	
L504	1-410-375-11	INDUCTOR CHIP 3.3uH	
L505	1-216-296-00	SHORT 0	
L506	1-216-296-00	SHORT 0	
L507	1-216-296-00	SHORT 0	
L508	1-216-296-00	SHORT 0	
L509	1-216-296-00	SHORT 0	
L510	1-216-296-00	SHORT 0	
		< TRANSISTOR >	
Q301	8-729-024-91	TRANSISTOR 2SC2712-GL-TE85L	

*NOTE
When replacing IC502, refer to “IC502 of VIDEO board” in “Servicing Notes” (Page 4).

Ref. No.	Part No.	Description			Remark
Q302	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q303	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q304	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q306	8-729-027-60	TRANSISTOR	DTC144TKA-T146		
Q307	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q308	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q310	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q453	8-729-216-22	TRANSISTOR	2SA1162-G		
Q454	8-729-216-22	TRANSISTOR	2SA1162-G		
Q502	8-729-024-91	TRANSISTOR	2SC2712-GL-TE85L		
Q531	8-729-140-75	TRANSISTOR	2SD999-CLCK		
		< RESISTOR >			
R101	1-216-073-00	METAL CHIP	10K	5%	1/10W
R102	1-208-441-61	RES,CHIP	1.5K	2%	1/10W
R103	1-208-441-61	RES,CHIP	1.5K	2%	1/10W
R105	1-216-295-00	SHORT	0		
R201	1-216-073-00	METAL CHIP	10K	5%	1/10W
R202	1-208-441-61	RES,CHIP	1.5K	2%	1/10W
R203	1-208-441-61	RES,CHIP	1.5K	2%	1/10W
R205	1-216-295-00	SHORT	0		
R301	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R302	1-216-624-11	METAL CHIP	75	0.5%	1/10W
R305	1-216-049-11	RES,CHIP	1K	5%	1/10W
R306	1-216-073-00	METAL CHIP	10K	5%	1/10W
R307	1-216-049-11	RES,CHIP	1K	5%	1/10W
R308	1-216-049-11	RES,CHIP	1K	5%	1/10W
R309	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R312	1-216-073-00	METAL CHIP	10K	5%	1/10W
R313	1-216-049-11	RES,CHIP	1K	5%	1/10W
R314	1-216-049-11	RES,CHIP	1K	5%	1/10W
R315	1-216-047-00	RES,CHIP	820	5%	1/10W
R316	1-216-657-11	METAL CHIP	1.8K	0.5%	1/10W
R317	1-216-683-11	METAL CHIP	22K	0.5%	1/10W
R318	1-216-033-00	METAL CHIP	220	5%	1/10W
R319	1-216-049-11	RES,CHIP	1K	5%	1/10W
R320	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R321	1-216-049-11	RES,CHIP	1K	5%	1/10W
R324	1-216-022-00	METAL CHIP	75	5%	1/10W
R325	1-216-295-00	SHORT	0		
R327	1-216-049-11	RES,CHIP	1K	5%	1/10W
R328	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R329	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R332	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R333	1-216-046-00	METAL CHIP	750	5%	1/10W
R335	1-216-073-00	METAL CHIP	10K	5%	1/10W
R336	1-216-073-00	METAL CHIP	10K	5%	1/10W
R340	1-216-022-00	METAL CHIP	75	5%	1/10W
R341	1-216-121-00	RES,CHIP	1M	5%	1/10W
R342	1-216-022-00	METAL CHIP	75	5%	1/10W
R403	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R404	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R405	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R406	1-216-081-00	METAL CHIP	22K	5%	1/10W
R407	1-216-073-00	METAL CHIP	10K	5%	1/10W
R408	1-216-073-00	METAL CHIP	10K	5%	1/10W
R409	1-216-049-11	RES,CHIP	1K	5%	1/10W
R410	1-216-049-11	RES,CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R411	1-216-073-00	METAL CHIP	10K	5%	1/10W
R412	1-216-073-00	METAL CHIP	10K	5%	1/10W
R413	1-216-025-00	RES,CHIP	100	5%	1/10W (FORMER TYPE) (*NOTE)
R414	1-216-081-00	METAL CHIP	22K	5%	1/10W
R415	1-216-081-00	METAL CHIP	22K	5%	1/10W
R421	1-216-073-00	METAL CHIP	10K	5%	1/10W (FORMER TYPE) (*NOTE)
R422	1-216-073-00	METAL CHIP	10K	5%	1/10W (FORMER TYPE) (*NOTE)
R423	1-216-073-00	METAL CHIP	10K	5%	1/10W
R424	1-216-073-00	METAL CHIP	10K	5%	1/10W
R425	1-216-073-00	METAL CHIP	10K	5%	1/10W
R426	1-216-073-00	METAL CHIP	10K	5%	1/10W
R457	1-216-025-00	RES,CHIP	100	5%	1/10W
R458	1-216-025-00	RES,CHIP	100	5%	1/10W
R459	1-216-025-00	RES,CHIP	100	5%	1/10W
R461	1-216-025-00	RES,CHIP	100	5%	1/10W
R462	1-216-025-00	RES,CHIP	100	5%	1/10W
R463	1-216-025-00	RES,CHIP	100	5%	1/10W
R464	1-216-025-00	RES,CHIP	100	5%	1/10W
R501	1-216-025-00	RES,CHIP	100	5%	1/10W
R502	1-216-025-00	RES,CHIP	100	5%	1/10W
R503	1-216-025-00	RES,CHIP	100	5%	1/10W
R504	1-216-025-00	RES,CHIP	100	5%	1/10W
R505	1-216-025-00	RES,CHIP	100	5%	1/10W
R506	1-216-025-00	RES,CHIP	100	5%	1/10W
R507	1-216-073-00	METAL CHIP	10K	5%	1/10W
R508	1-216-081-00	METAL CHIP	22K	5%	1/10W
R509	1-216-081-00	METAL CHIP	22K	5%	1/10W
R510	1-216-081-00	METAL CHIP	22K	5%	1/10W
R511	1-216-081-00	METAL CHIP	22K	5%	1/10W
R512	1-216-081-00	METAL CHIP	22K	5%	1/10W
R513	1-216-081-00	METAL CHIP	22K	5%	1/10W
R514	1-216-081-00	METAL CHIP	22K	5%	1/10W
R516	1-216-073-00	METAL CHIP	10K	5%	1/10W
R517	1-216-073-00	METAL CHIP	10K	5%	1/10W
R518	1-216-073-00	METAL CHIP	10K	5%	1/10W
R519	1-216-025-00	RES,CHIP	100	5%	1/10W
R520	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R523	1-216-013-00	METAL CHIP	33	5%	1/10W
R530	1-216-081-00	METAL CHIP	22K	5%	1/10W
R531	1-216-025-00	RES,CHIP	100	5%	1/10W
R532	1-216-025-00	RES,CHIP	100	5%	1/10W
R533	1-216-025-00	RES,CHIP	100	5%	1/10W
R534	1-216-073-00	METAL CHIP	10K	5%	1/10W
R535	1-216-073-00	METAL CHIP	10K	5%	1/10W
R536	1-216-033-00	METAL CHIP	220	5%	1/10W
R537	1-216-025-00	RES,CHIP	100	5%	1/10W
R538	1-216-073-00	METAL CHIP	10K	5%	1/10W
R542	1-216-049-11	RES,CHIP	1K	5%	1/10W
R543	1-216-685-11	METAL CHIP	27K	0.5%	1/10W
R544	1-216-659-11	METAL CHIP	2.2K	0.5%	1/10W
R545	1-216-025-00	RES,CHIP	100	5%	1/10W
R546	1-216-049-11	RES,CHIP	1K	5%	1/10W
R547	1-216-295-00	SHORT	0		
R548	1-216-049-11	RES,CHIP	1K	5%	1/10W
R549	1-216-025-00	RES,CHIP	100	5%	1/10W

*NOTE
When replacing IC502, refer to "IC502 of VIDEO board" in "Servicing Notes" (Page 4).

VIDEO

Ref. No.	Part No.	Description			Remark
R550	1-216-025-00	RES,CHIP	100	5%	1/10W
R551	1-216-025-00	RES,CHIP	100	5%	1/10W
R552	1-216-025-00	RES,CHIP	100	5%	1/10W
R554	1-216-025-00	RES,CHIP	100	5%	1/10W (EXCEPT CH)
R554	1-216-029-00	RES,CHIP	150	5%	1/10W (CH)
R555	1-216-121-00	RES,CHIP	1M	5%	1/10W
R556	1-216-025-00	RES,CHIP	100	5%	1/10W
R557	1-216-025-00	RES,CHIP	100	5%	1/10W
R558	1-216-073-00	METAL CHIP	10K	5%	1/10W
R559	1-216-073-00	METAL CHIP	10K	5%	1/10W
R560	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R561	1-216-049-11	RES,CHIP	1K	5%	1/10W
R562	1-216-025-00	RES,CHIP	100	5%	1/10W (FORMER TYPE) (*NOTE)
R563	1-216-025-00	RES,CHIP	100	5%	1/10W
R564	1-216-025-00	RES,CHIP	100	5%	1/10W
R565	1-216-025-00	RES,CHIP	100	5%	1/10W
R566	1-216-025-00	RES,CHIP	100	5%	1/10W
R567	1-216-073-00	METAL CHIP	10K	5%	1/10W
R568	1-216-073-00	METAL CHIP	10K	5%	1/10W
R569	1-216-073-00	METAL CHIP	10K	5%	1/10W
R572	1-216-073-00	METAL CHIP	10K	5%	1/10W
R573	1-216-073-00	METAL CHIP	10K	5%	1/10W
R574	1-216-073-00	METAL CHIP	10K	5%	1/10W
R577	1-216-081-00	METAL CHIP	22K	5%	1/10W
R578	1-216-081-00	METAL CHIP	22K	5%	1/10W
R579	1-216-073-00	METAL CHIP	10K	5%	1/10W
R580	1-216-073-00	METAL CHIP	10K	5%	1/10W (EXCEPT CH)
R581	1-216-073-00	METAL CHIP	10K	5%	1/10W (CH)
		< SWITCH >			
S501	1-571-395-11	SWITCH, SLIDE (SYSTEM SELECT)			
		< VIBRATOR >			
X401	1-767-261-21	VIBRATOR, CERAMIC (8MHz) (FORMER TYPE) (*NOTE)			
X501	1-767-510-11	VIBRATOR, CERAMIC (10MHz)			
X503	1-767-519-11	VIBRATOR, CRYSTAL (27MHz)			

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MISCELLANEOUS
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6	1-233-545-11	TUNER, FM/AM (TH)
6	1-693-381-11	TUNER, FM/AM (CH)
6	1-693-421-11	TUNER, FM/AM (SP, MY, IA)
8	1-751-688-11	WIRE (FLAT TYPE) (13 CORE) (TH)
8	1-773-009-11	WIRE (FLAT TYPE) (15 CORE) (150 mm) (EXCEPT TH)
9	1-775-212-11	WIRE (FLAT TYPE) (23 CORE)
10	1-690-589-31	WIRE (FLAT TYPE) (13 CORE)
54	1-773-043-11	WIRE (FLAT TYPE) (17 CORE)
⚠58	1-569-007-11	ADAPTOR, CONVERSION 2P (IA)
⚠58	1-569-008-21	ADAPTOR, CONVERSION 2P (SP, MY)
⚠59	1-558-943-41	CORD, POWER (IA, TH)
⚠59	1-575-651-21	CORD, POWER (SP, MY)
⚠59	1-782-510-11	CORD, POWER (CH)
60	1-783-898-11	WIRE (FLAT TYPE) (15 CORE)
121	1-769-972-11	WIRE (FLAT TYPE) (13 CORE)
130	1-773-108-11	WIRE (FLAT TYPE) (19 CORE)
257	1-452-925-11	MAGNET ASSY
258	1-776-042-11	WIRE (FLAT TYPE) (8 CORE)
⚠301	8-820-020-02	OPTICAL PICK-UP KSS-213D/Q-NP
302	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)
HP101	A-2056-681-A	DECK (A) ASSY, HEAD
HP101	A-2056-683-A	DECK (A) ASSY, HEAD (230PWR1)
HRPE101	A-2056-682-A	DECK (B) ASSY, HEAD
HRPE101	A-2056-684-A	DECK (B) ASSY, HEAD (230PWR1)
M1	A-2004-628-A	MOTOR ASSY, CAPSTAN
M101	A-4917-523-A	MOTOR ASSY (SPINDLE)
M102	A-4917-504-A	MOTOR ASSY (SLED)
M701	A-4672-004-A	MOTOR ASSY (TURN)
M801	A-4672-004-A	MOTOR ASSY (SLIDE)
M901	1-763-048-21	FAN, D.C.
S811	1-473-335-11	ENCODER, ROTARY (BU, TRAY ADDRESS DET)
⚠T501	1-431-828-11	TRANSFORMER, POWER

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HARDWARE LIST
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#1	7-685-872-09	SCREW +BVTT 3X8 (S)
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#3	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S
#4	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3
#5	7-685-871-01	SCREW +BVTT 3X6 (S)
#6	7-685-880-09	SCREW +BVTT 4X6 (S)
#7	7-685-851-04	SCREW +BVTT 2X4 (S)
#8	7-621-775-10	SCREW +B 2.6X4
#9	7-621-255-15	SCREW +P 2X3
#10	7-685-850-04	SCREW +BVTT 2X3 (S)
#11	7-628-254-15	SCREW +PS 2.6X6
#12	7-628-254-50	SCREW +PS 2.6X16

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

以阴影和⚠标志来识别的零部件在安全方面具有关键性。因此只能以规定号码的零部件来更换。

*NOTE
When replacing IC502, refer to “IC502 of VIDEO board” in “Servicing Notes” (Page 4).

Sony Corporation
Home A&V Products Company

98G0570085-1D
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